Mac FORMAT

All your Apple needs

> Mac > iPad > iPhone

> **Issue 249** July 2012

iPHONE 5

ALL YOU NEED TO KNOW

Details of the new screen and more! p6

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Subscribe to *MacFormat* and pay **just £3.95 per issue** plus get *The Ultimate iTunes and iPad Guide*. **Turn to page 30 to sign up!**

This month's issue kicks off with our end-of-year report on Tim Cook's tenure at Apple. If it were a school report, it would probably be along the lines of: "Quiet and studious. Solid performance this year. Has made new friends but needs to assert his authority more. A-"

Elsewhere you'll find lots of great advice on how to share your content with friends, family, and the outside world. These days no Mac is an island, and there are lots of ways to share your music, video, photos or documents, using a home network, social media sites or iCloud.

And as a bit of a fun, we take a look at the potential areas that Apple could expand into next. After all, it's already made the move from computers to consumer electronics; with a cash pool Scrooge McDuck would be envious of, it could just as easily migrate into electric cars, TV and movies, telecomms or even airlines and hotels. We polish our crystal ball and peer into its murky – and factually suspect – depths.

Things are all set to change next month when we unveil the biggest revolution in *MacFormat*'s 250-issue history. We have exciting times ahead – join me on 17 July as we launch our redesigned mag and iPad edition (see page 128)!

Graham Barlow, Editor-in-Chief
graham.barlow@futurenet.com
twitter.com/MacFormat

>> ON THE COVER

> Tim Cook: one year on

How has Steve Jobs' replacement fared in his first 12 months? **p24**

> Sharing made easy

Your stuff, wherever you want it **p32**

> Soft focus in iPhoto

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The long-awaited sequel gets the hands-on treatment **p102**

>> MEET THE TEAM / YOUR MACFORMAT EXPERTS!

Ian Osborne

Tech Champion

"Despite being spectacularly busy, after reading this issue's *Diablo III* review, I'm just itching to play it. Decorating can wait."

Andy Dyer's Diablo III review is on p102

Tim Hardwick

Apps Guru

"Hardware testing this month was a joy. The quality and range of stations now available on DAB radio really surprised me."

Tim is dragged into the 21st century p112

Alex Thomas

Creative Pro

"Titles like *Leonard da Vinci: anatomy* really show the potential of the iPad. I can't wait to show you the app version of *MacFormat*."

Alex thinks the future of print is digital p106

Luis Villazon

Apple Expert

"I'd have to start vaguely waving my hands and talking about lock-ups on the HDMI controller chip in your TV. So don't ask."

Luis gets all agitated about HDMI cables p82

Matthew Bolton

Mac Tutor

"After the amazing weather, I've ended up with loads of great little video snippets. Now to make them look classy (by which I mean old)."

Check out our tutorial on iMovie filters p50

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Start here for some simple solutions to Mac problems **p82**

Discover the latest Apple kit

Read our verdict on new Apple hardware and software **p89**

The best Mac & iPod products

Don't buy a new Mac until you've read our Buyers' Guide **p117**

Sharing made easy

Use iCloud and more to stay connected

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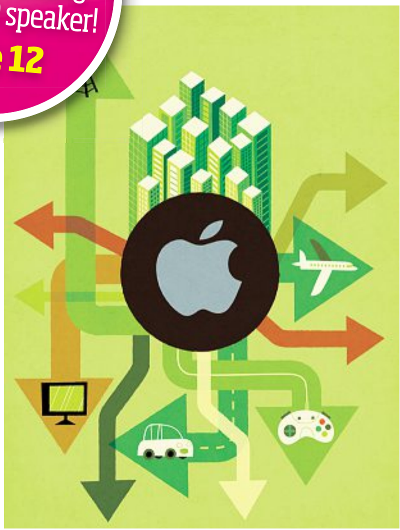
WIN! An Altec Lansing inAir 5000 speaker! **Page 12**



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"Get a dramatic streaking out of the edges of your image by using the radial blur filter"

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> Diablo III rated

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> Max Payne

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Apple's new iPhone

Evidence gathers for the next device

Apple iPhone development continues with Apple preparing to reveal the next generation of its device. The company has secured the services of Sharp, Sony and Toshiba to manufacture displays, presumably for the new device, as well as contracting Elpida to manufacture flash memory modules.

The company is set to ship at least 140 million new iPhones in the year following its launch. And because the deals with other companies are likely to affect shareholders in the Japanese suppliers, news of their existence was carried within the *Wall Street Journal*, lending credibility to these claims.

It's also suggested that Apple plans to equip its new iPhone with a 4-inch screen, and the device seems likely to feature LTE support in territories that offer 4G (which does not presently include the UK). Other details to emerge include an improved processor and graphics and a slimmer design.

Apple has migrated to Japan's display vendors because they offer thinner screens based on in-cell technology. This places the touch sensors within the colour filters, rather than in another stratum above them. Apple partner, Foxconn, has invested millions in Sharp, which has built production lines for its displays. "Of course, Taiwanese panel makers are also developing this technology, but Japanese suppliers still run faster," said DisplaySearch analyst, David Hsieh.

Expectations the new iPhone would be introduced at WWDC were dashed on claims that Apple's new display partners would only begin manufacturing screens in June. This tallies with a series of analyst statements suggesting an autumn introduction for the new iPhone.

>> MORE NEWS
For even more on the Mac, iPod and iPhone, visit
www.macformat.co.uk

Apple licensed a new metallic alloy called Liquidmetal in 2010. This alloy should possess the strength of metal with the lightness and translucency of glass, and can be moulded into shapes that would be impossible using the other two materials. However, this is a completely new alloy, and its co-inventor,

Multi-point focusing on camera?
A 4-inch screen and LTE support?
Liquidmetal alloy for the thinner design?

» APPLE IN PICTURES / Fadell's latest cool device

» iOS AT HOME

Father of the iPod, Tony Fadell's latest innovation is the iOS-controlled Nest Learning Thermostat – the first iOS-friendly household device.

Atakan Peker, told *Business Insider* he doesn't believe Apple is in a position to use Liquidmetal in shipping products at this time. "This is a technology that has yet to be matured and perfected both in manufacturing process and application development," Peker said. He added that he believes Apple would choose to use the tech inside a "breakthrough new product", but warned that major investment in development and manufacturing technology would be required. Critics however soon pointed out that the scientist has not worked at Liquidmetal since 2007, leaving it possible (if only slightly) that the new iPhone will implement this light, strong alloy within its chassis design. The consensus among Apple watchers seems to be that while this is possible it remains unlikely, at least not with the next iteration of the device.

Further muddying the waters, Liquidmetal (which develops the alloy of the same name) claimed in March, "Parts delivery began this past December with continuing shipments scheduled for the months ahead."

Apple-watchers are also eager to find out if the company will equip iPhones with support for Near Field Communications (NFC). This short range, contactless identification technology is becoming widely adopted by credit card firms, retailers and other payment organisations. Some existing Android smartphones already have this feature. NFC is expected to hit the mainstream within the next 12 months. Already supported for small payments (up to €20) by Visa and Mastercard, Transport For London intends replacing its Oyster system with support for NFC, ushering in payment by mobile devices. Apple doesn't always follow the crowd, though, and may instead opt for payment solutions available within the latest version of the Bluetooth standard.

A recently published Apple patent also suggests the iPhone camera may include support for multi-point focusing, a first for a smartphone.

More insight into the future of the iPhone may emerge from WWDC, where Apple is likely to give developers a glance at iOS 6, including its new mapping tools. ●

» APPLE IN NUMBERS

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Apple is now worth 24 Dells in market value

> *"If I need to crowbar the thing off, I'm never going to put it back on"*

Editor Graham gets real with the impracticalities of iPhone cases. »

Apple talk

Who's saying what?

› Tim Cook
www.apple.com
"Facebook is the one company that is closest to being like Apple."
Apple boss lavishes high praise on Facebook.

› Apple
www.apple.com
"The Government's complaint against Apple is flawed… as a matter of fact and law."
Apple rejects DOJ's ebook price-fixing enquiry.

› Max Paley
www.fortune.com
"Any meeting of significance is always populated by project management and global-supply management."
At Apple, logistics is now as important as design.

› David Eiswert
www.troweprice.com
"The Apple supply chain is doing things no-one else can."
Apple invests in unique manufacturing processes, fund manager states.

› Yves Maitre
www.orange.com
"The bandwidth will start to become a very valuable resource."
Carriers look to higher charges for bandwidth.

› James McQuivey
www.forrester.com
"Apple should sell the world's first non-TV TV."
Principal analyst gives guidance to the magical powers of Apple.

>> IN THE SPOTLIGHT

Living the iLife

Graham Barlow

Being the editor of the UK's biggest Apple magazine, I get to try out a lot of iPhone cases. I'm always swapping them over looking for that one perfect case, which has everything I need. Sadly I still haven't found it yet, but over the years I've learned two very important things about iPhone cases, and it's time I shared my wisdom with yourselves and the iPhone case industry at large, so they can get closer to making me the perfect case.

Firstly, make them easier to take off. If you put a case on your iPhone after you bought it and haven't touched it since, then you probably have no idea about this. But you'd be surprised at just how many iPhone cases are pretty much impossible to wrench off your iPhone once they're on. Honestly, they stick harder than cornflakes dried onto a breakfast bowl! If, like me, you have to keep trying out different iPhone cases then this is no fun, and you risk losing your fingernails, not to mention damaging your precious iPhone, in the process.

> *"Make them easier to take off! Honestly, they stick harder than cornflakes dried onto a breakfast bowl!"*

So, my first piece of advice for iPhone case manufacturers is this: you need to invest as much time making your cases as easy to take off as they are to put on. If I find I need a crowbar to get the thing off I'm never going to put it back on my precious iPhone – ever!

Secondly, make them work with everything else. It's a real pain if your lovely new case prevents me from connecting my iPhone properly to the speaker dock I've got in my kitchen. This might be something that dock manufacturers need to work on as hard as case makers, but somebody needs to sort this out. I find that I've got no time for cases that won't enable me to connect to my home speaker dock without having to take the case off (see my first point).

Once you've got these two basic things right, we can start to think about features like a built-in stand, or groovy artwork on the back. As with most things in life, if you haven't got your basics covered then the flashy stuff doesn't matter. ●

Graham is waiting for somebody to invent a rocket-powered iPhone case, so he can fly to work. Until then his life has no meaning.

Ive's iPod design arguably set the template for the iPhone's revolutionary user interface.

REBECCA NADEN/AFP/GettyImages

>> DECORATED DESIGNER

Apple's Ive receives KBE

Apple guru shares Apple secrets in speech

Apple's Senior Vice President of Industrial Design, Jony Ive, visited the UK in May to collect a KBE from Princess Anne. While in the country he confirmed his intention to remain with Apple and explained that projects he's working on right now seem to him to be the "best and most important work" the company has done.

Interviewed by *The Telegraph*, Ive responded to a question that asked which of his Apple designs he'd most like to be remembered for. He replied: "It's a really tough one. A lot does seem to come back to the fact that what we're working on now feels like the most important and the best work we've done, and so it would be what we're working on right now, which of course I can't tell you about."

Among its many projects, the company is currently rumoured to be working on a redesigned sixth-generation 4-inch iPhone, a 7-inch iPad and an Apple television. Ive also shared a little about how Apple's development process works, confirming that many products the company works on never actually see the light of day. He also shared insight into the challenges overcoming some of his team's bigger technical design obstacles. "It very often isn't clear whether we are actually going to be able to solve the problems," he said.

Ive also spoke about the importance of paying attention to detail and nurturing a drive to make products of great complexity deterministically simple. "Simplicity is somehow essentially describing the purpose and place of an object and product," he said.

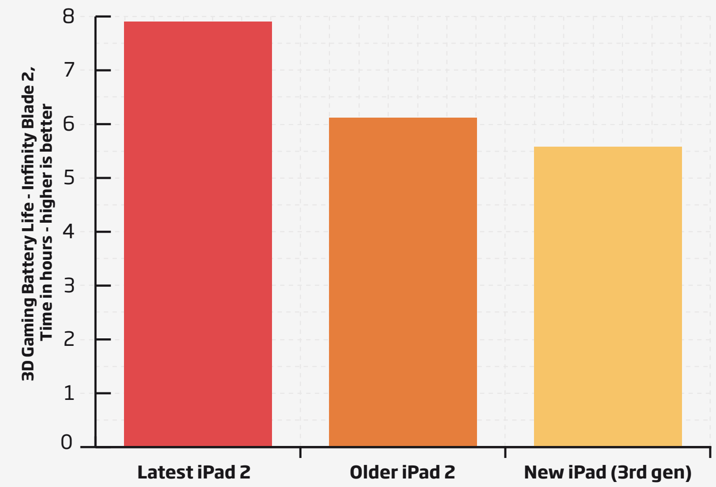
>> APPLE IN NUMBERS

No. 1

Apple is now the world's most valuable brand, says BrandZ

Reports last year speculated that Ive may have plans to leave the company, claiming he wanted to return to the UK, so that he could raise his two children here. We don't know if there were any such negotiations, but even if there were, Ive seems to have made up his mind, saying: "I'll stay to work on trying to solve the same sort of problems we've been trying to solve over the last 15 years." ●

APPLE IN NUMBERS / iPad battery life



The current model iPad 2 offers nearly 30% better battery life than the previous generation iPad 2, Anandtech reports. This is due to the quiet inclusion of a new and smaller version A5 processor in some units - though you can't tell if the one you're buying offers this at point of sale.

BIG-CAT NEWS

Mountain Lion ready to pounce

Speculation that the new OS is imminent

Apple's OS X development team are focused on the next major release, Mountain Lion, with the latest builds hinting at tighter iCloud integration and implementation of further features from iOS within the Mac system.

Initially released to third-party developers in February, the latest builds of the pre-release software come with some notable new features, including automatic downloads support for the App Store. Also *Safari* now accesses iCloud bookmarks, so you can read pages found on other devices. Additionally, Launchpad is no longer arranged alphabetically and *Font Book* has gained full-screen mode. System Preferences has also been simplified and tidied up. And for those who need to focus, the Mac gains iOS-like Notifications, including a handy 'do not disturb' feature.

Mac rumour websites are leading its readers to believe Apple will also introduce support for Siri Dictation (borrowed from the iPad 3) to the OS. The American 9to5Mac site noted a 'Start Dictation' keyboard shortcut within the developer beta. An offline Safari Reading List may also appear.

The frequency with which Apple has introduced updates to the beta release suggests development is certainly on the fast track. Some speculate the operating system may even be introduced at WWDC. Apple's move to account for a portion of Mac sales revenue on a subscription basis (as it does iPhones) could suggest subsidised future OS upgrade prices, as the company has previously said it would update OS X every year. This could also reflect plans to offer iCloud support to Macs. ●

HOT OR NOT?

The latest word from the Apple rumour mill

HOT: Macs get Retina displays

Apple is securing huge display orders from Japanese firms for future Apple products, some predict Retina display laptops and iMacs. We consider this likely.

HOT: Apple TV gets Siri

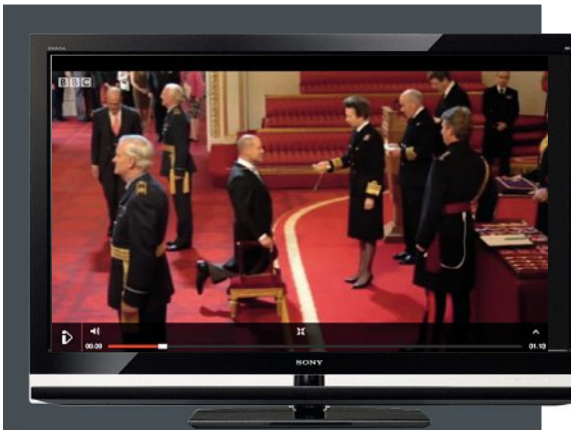
The anticipated Apple television set will boast a Facetime-enabled iSight camera with Siri-based controls. If Apple ships this product, Siri controls make a lot of sense.

NOT: Cheaper MacBook rumour

Digitimes claims Apple plans to launch $799 MacBook Air models. Maybe, but unlikely. We're dubious because the source has a very poor track record for rumours.

NOT: Micro-USB for iOS devices

Despite signing a European agreement to standardise its Dock Connector, Apple seems unlikely to adopt Micro-USB connections for iPods and iPhones.



AppleonTV

The Mac is ready for its close-up

If you were watching BBC News last month perhaps you would have seen the live coverage of Jony Ive being awarded a knighthood. The UK's highest honour for Apple's design genius.

If you've spotted a Mac on television, then email macformat@futurenet.com and tell us all about it!

>> CREATIVE WORDS

Magnificent Mac Pro

Alex Thomas

The Mac Pro is the weapon of choice for anybody who does serious work on a Mac, be that video-making, music production, high-end illustration, CG or VFX work. Yes you can function on a laptop or iMac – but you can do it faster and more comfortably on a RAM-packed, multi-cored Mac Pro with a huge GPU.

Yet the forums are full of folk worried about the fate of the Mac Pro – and have been since its last refresh in July 2010, some 700 days ago. My gut feeling is that there is one more iteration of the Mac Pro left. Intel's six- and eight-core Xeon E5 chips are finally being rolled out, and the latest breed of Nvidia GPUs, such as the GTX 5xx series, work natively in OS X Lion with Nvidia's drivers. But if it does happen, it's almost certainly the last roll of the dice for the Mac Pro in its current form. And I think that's a Bad Thing.

Apple is slowly turning its back on the high-end market. It ditched its Xserve hardware; compositing app *Shake* has died; *Final Cut X* has had a less-than-stellar reception; and OS X is starting to look and feel more like iOS.

> *"It would be criminal for Apple to turn its back on the high-end community that supported it through its dark days"*

Yes, Apple makes iMacs and they're very capable machines. But they're not 24-threaded processing beasts. They use mobile-standard GPUs. You can't add 8TB of storage, or multiple PCI-Express cards, or 32GB of memory.

Maybe Apple has some brilliant modular, Thunderbolt-enabled machine up its sleeve, into which you can plug the latest GPU and as much storage as you can afford. But I think it would be criminal for Apple to turn its back on the high-end community that supported it through its dark days. Not to mention the developers and publishers that have converted so many apps – at considerable expense – to run on OS X, and that are designed for multiprocessor workstations.

Unless Apple produces a machine to fill the void, these artists and editors, animators and architects, opinion formers and trend setters, will be forced to leave the Mac and switch to a PC. And how can that be anything but bad? ●

If you agree with Alex, add your voice to the growing Facebook petition over at: https://www.facebook.com/MacProsPlease.

>> APPLE EVENT

Apple brings on sounds for summer

60 acts confirmed for iTunes Festival 2012

Apple has confirmed its sixth annual iTunes Festival. The event returns to Camden's Roundhouse for 30 nights in September, with Jack White, Usher, Norah Jones and One Direction already booked to perform.

"I am thrilled to jumpstart the iTunes Festival in London this year. I am honoured to set the stage for what's to come," said Usher, who plays the opening night.

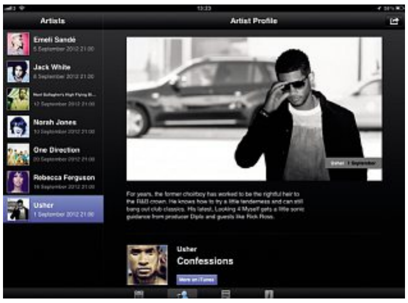
You can expect leading names from musical entertainment. Last year's series of events included Paul Simon, Manic Street Preachers, My Chemical Romance, Friendly Fires, Foo Fighters and Apple fan, Moby.

Other acts this year include Emeli Sandé, Noel Gallagher's High Flying Birds and Rebecca Ferguson. A total of 60 artists will appear, details to be announced. Keep an eye on Apple's website (**www.itunesfestival.com**) or check the *iTunes Festival* app, which also lets you win tickets and watch or repeat live shows.

If you can't make it to London for the event, you can catch festival coverage on Channel 4, E4 and 4Music.

Neil McCallum, Head of T4 & Music said; "We're pleased to confirm that the iTunes Festival finally returns to Channel 4, its original home, for what looks set to be its strongest year yet."

Tickets are not available for sale, only through competitions or via limited fan giveaways via the artists. ●



R'n'B act Usher is just one of this year's top artists.

Stockwatch

A look at the world of Apple business with Clem Chambers

Apple's stock is exhibiting all the signs of having made a high in the mid $600s and it has fallen back into the mid $500s.

When you think that every dollar is roughly $1 billion in market cap, then falling $100 is the equivalent of Apple losing $100 billion in market value.

The Facebook IPO saw many Apple traders flip into the social network to try and make a profit from the initial pop.

Facebook ended up face planted as the Nasdaq malfunctioned and flopped. The next day saw investors fleeing and Apple rocketing as the faithful return scalded and perhaps contrite. However, Apple is making shaky progress and a lot hinges on the new iPhone, whatever that will be. It will take another product launch miracle to keep Apple up at these levels but of course the company has a history of them.

It will be the first big test of the post-Jobs Apple. Can the magic live on?

Clem Chambers is CEO of ADVFN, Europe's leading stocks and shares website.

>> PRODUCTIVITY FOR ALL

Office comes to iOS devices

World-class productivity tools… now for iPhone

Microsoft is working to ensure its *Office* suite remains the de facto productivity standard in the post-PC age, hatching plans to introduce *Office* for iOS and Android, perhaps as soon as this autumn.

The introduction of new tablet and smartphone-friendly versions of *Office* is likely to coincide with the introduction of Windows 8, later this year.

Boy Genius Report cites sources who claim to have seen *Office for iOS* running on an iPad. This follows reports from The Daily, which claimed to have used a prototype of the app in February. Microsoft denied these claims, saying the report was "based on inaccurate rumour and speculation."

The Daily claimed the app will provide a similar user interface to Windows 8's Metro design. That report also claimed the app lets users create and edit *Word*, *Excel* and *PowerPoint* documents.

Microsoft's purported plans are probably predicated on demand among business users for versions of the suite for non-Windows mobile devices. The 'bring your own device' trend means Apple apps including *Pages*, *Keynote* and *Numbers* are seeing widespread use among enterprise customers, which is relaxing Microsoft's grip on its enterprise customer heartland. ●

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>> VP RESIGNS

Cagni ups and leaves

Apple Vice President quits company after 12 years

Apple's EMEA Vice President Pascal Cagni, has resigned. No reasons for the departure have been given.

Apple's European chief's search for a new role was suggested by 2009 reports claiming he was in the frame to become chief executive of ITV.

Cagni joined the company in 2000 and developed Apple's European distribution, including its retail store presence. In 2008, he told France's *Les Echos* newspaper of the company's plans to expand iPhone distribution and extend its reach into Europe, where the device is now widely available. Since then he's presided over boom times at Apple Europe, which has "for several years been the fastest growing region within Apple worldwide," he wrote on his IEDE Business School blog. In the period Apple has grown its EMEA revenue from $1 billion to $19 billion. Since then, this level of growth has been dwarfed by Apple's success building its business in China and took place during a period when the company has seen expansion across all its territories and product lines.

Before he got to Apple, Cagni worked for NEC/Packard Bell Europe, where he displayed: "energetic management and operations talent". Cagni is also a non-executive director of Kingfisher (which includes B&Q) and Egg. Cagni obtained an MA in Law at Institut d'Etudes Politiques in Paris and an MBA from Institut Superieur des Affaires. ●

>> APPLE IN NUMBERS

$210 million

Amount Foxconn spends on an Apple production line

Virtual Private Servers

Way more Powerful
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the cost of dedicated.

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Custom setup
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Win! An Altec Lansing inAir 5000!

Two lucky winners will grab one of these exciting AirPlay speakers

With an AirPlay sound system connected to your home network, you no longer have to plug your iPhone, iPod touch or iPad into your speaker dock to play your music. Just select your AirPlay speakers as an output source and stream to your audio device. It's just as easy to stream from your Mac or PC too. Because AirPlay uses the Wi-Fi protocol, it has a much greater range than a Bluetooth connection, and as the audio isn't compressed, it sounds better too.

Altec Lansing's inAir 5000 is one of the best AirPlay systems around. It's really easy to set up, and it offers a gorgeous, warm sound. The low end is rich and prominent but never swamps the crystal clear treble, and the vocals are so well reproduced you'd think the singer was in the room with you. It's stylish enough to look good in any room, well built and a joy to listen to.

Thanks to Altec Lansing, we have two inAir 5000 speaker sets to give away. To stand a chance of winning one of these superb prizes, just answer this simple question:

AirPlay uses which wireless protocol?
A) Bluetooth
B) Wi-Fi
C) IrDA

For more information on the inAir 5000, and other great Altec Lansing audio devices, visit **www.altecmm.com**.

HOW TO ENTER

- To enter, text ALTEC, followed by a space and then your answer (A, B or C), another space, then your name and address to 87474. Alternatively you can enter via our website at **www.macformat.co.uk** by clicking on the **Competition** image link.
- By sending your entry, you agree to these competition rules and confirm you are happy to receive details of future offers and promotions from Future Publishing Limited and carefully selected third parties.
- If you do not wish to receive information relating to future offers and promotions, please include the words NO INFO at the end of your text message.
- Texts will be charged at £1 plus your standard network tariff rate.
- This competition closes on Monday 16 July 2012.

The Altec Lansing inAir 5000 speaker system brings your music to life.

Orange
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Rope
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FOO FIGHTERS
WASTING LIGHT
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LANSING

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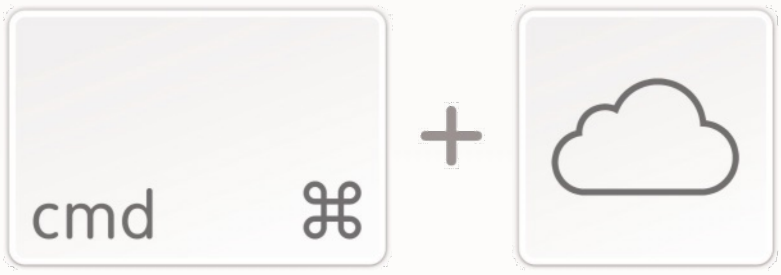

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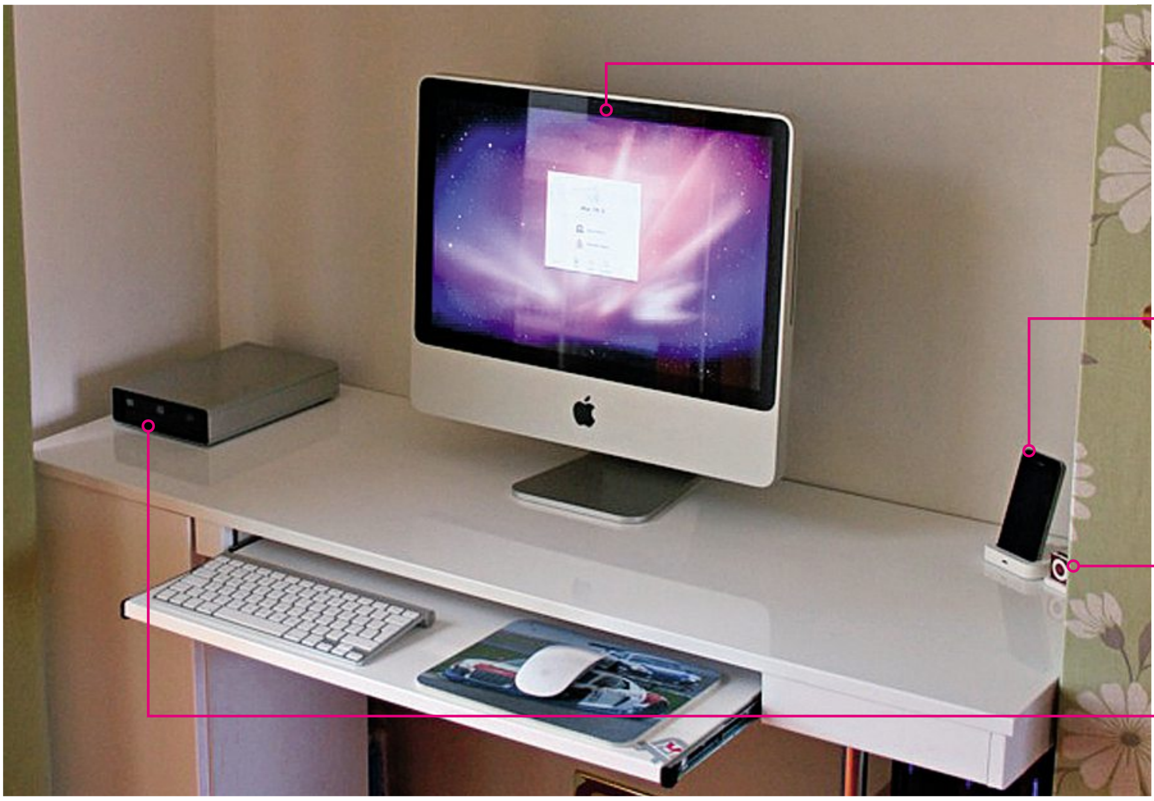
Me&MyMac

MacFormat readers share their beloved Mac setups

ENTER AND WIN!
Email pictures of your setup to **macformat@futurenet.com** and you could be in with a chance of winning a laptop bag from be.ez.

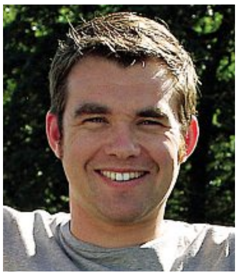


20-inch iMac
Daniel's iMac is a 2008 model with a 250GB hard disk drive and 4GB of RAM, running Mac OS X 10.6.8 .

iPhone 4 16GB
Daniel's iMac may be his favourite product, but the iPhone 4 comes pretty close: "It fits my life in my pocket."

iPod shuffle 1GB
The red iPod shuffle only has 1GB storage, but Daniel fills it with fresh tunes using Algoriddim's *djay*.

Western Digital MyBooks
Daniel has three of these, one of which he uses for Time Machine backups.



>> PROFILE

Name: Daniel Moore
Occupation: Delivery driver
Been using a Mac for: 11 years
Favourite hardware: iMac
Favourite software: iTunes

Simple is better than complicated. And when you see Daniel Moore's Mac setup you realise that it's true – all the essentials are there – an iMac, an iPhone 4 and an iPod, yet they're laid out on a plain white desk in a manner that manages to be both minimalist yet fun. However, there's clearly a higher aesthetic sensibility going on here than Daniel's job as a delivery driver would suggest. It turns out he's a fully qualified graphic designer. "It's extremely disappointing not getting a job in graphic design," he says, "but I'm glad I've done the course because it makes me appreciate my iMac and its underlying potential much more."

It was while studying for his Graphic Design degree that Daniel was first introduced to Apple and the Mac. "The college was using the 'lickable' iMacs on OS 9. After coming from a very poor PC background, I was hooked," Daniel says. "A fascinating-looking PC that wasn't a 'PC', but worked better."

Although he doesn't work professionally as a designer, Daniel still uses his 2008 20-inch iMac for the design work that he does for friends and family from time to time. Its main purpose though is to act as a hub for all the things Daniel likes to do, whether it's updating *iCal* with dates and events, or creating DJ mixes using Algoriddim's *djay* for Mac (**www.algoriddim.com/djay-mac**) which he then puts onto his iPod shuffle.

> *"iTunes is such an easy-to-use app… it's the only one that's open 100% of the time when my iMac is on"*

The application that Daniel uses most though is *iTunes*. "It handles all my movies, TV shows, music and photos, and lets me carry them around on my iPhone or stream to my Apple TV," Daniel says. "It's such an easy-to-use application and is the only one that's open 100% of the time when my Mac is on."

Daniel's setup may be modest, but he does have plans to upgrade his Apple-centric lifestyle in future. He's looking to change his second-generation Apple TV to the latest 1080p model, and to replace one of his Western Digital MyBook external hard drives with a Time Capsule instead. Like many of us, he also has his sights on a brand new iPad: "The iPad would be handy to take to bed to watch films and TV shows – or even to read, as sometimes the iPhone's screen is just a little too small." ●

Nikon 1
"IF I WERE A COFFEE MACHINE, YOUR COFFEE WOULD BE READY BEFORE YOU EVEN PRESSED THE BUTTON."
Nikon
1
J1
1 NIKKOR
10mm 1:2.8 ø40.5
I AM | 1 CLICK AHEAD

Nikon
1
J1
1 NIKKOR 10-30
1 NIKKOR 10

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At the heart of the image

Nikon

I use my Mac for Making music

Interview: Steve Jarratt

Ken Oliver Jones is a musician who uses his Mac for tunes, artwork and video

»PROFILE

Name: Ken Oliver Jones
Occupation: Musician, actor
URL: www.hatsofftoledzeppelin.co.uk
Mac: MacBook Pro 3.06GHz Intel Core 2 Duo with 8GB RAM, iPhone 4, iPad 1

MacFormat: Please tell us a bit about yourself…
Ken Oliver Jones: I'm an actor, musician, musical director and amateur screenwriter. I also currently play John Paul Jones in the tribute band Hats Off To Led Zeppelin, which is touring around the world. I use Apple Macs for everything, from music production and designing posters for gigs, to doing the accounts and everything in between!

MF: What made you decide to work on Macs instead of PCs?
KOJ: I changed to Mac about eight years ago with the only regret that I hadn't done so earlier! The apps are so easy to use with across-the-board commands. They also look great.

MF: What's the benefit of having a multi-Mac/multi-screen setup?
KOJ: When I'm arranging music for shows I use *Logic*. I then have the main screen for the arranging and the second window for previewing the sheet music, to then print for musicians to play from. The same goes for *Final Cut*, with the timeline in one window and the final image in the second. It makes running multiple apps ridiculously easy!

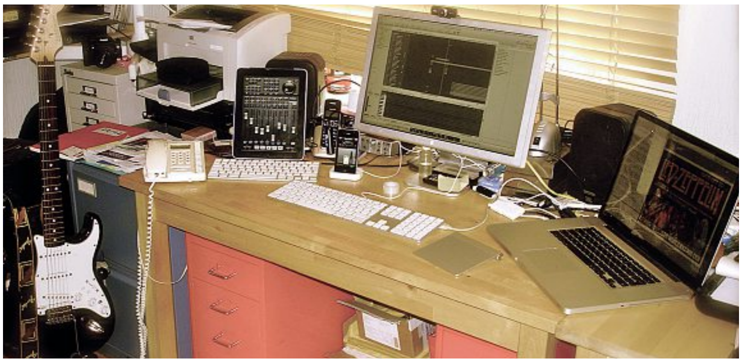
MF: What's the best app for music-making on the Mac?
KOJ: *Logic Pro* all the way. As mentioned, I use this for backing tracks, arranging vocal parts and for producing printed music. You can also import movies, which makes scoring music for films a doddle!

MF: What's the one app or piece of kit you can't do without?
KOJ: The last few versions of *Logic* come armed with *Mainstage*, which I use for all live work on guitar and keyboard instruments. Put through an audio interface, you can give soundmen individual sends for each instrument, so it's like mixing an orchestra. It's very easy to program on the fly and, to me, it's invaluable.

MF: How has the advent of apps on iOS changed how you work?
KOJ: I produce and play in a show called *Buddy Vs The Killer*, which has slides and video images all the way through. When we tour it over here in the UK, I prepare and operate the slides from the stage using *Keynote* on the iPad, as well as playing guitar. Any alterations can be made on the road quickly and simply. The iPhone even has a remote control for *Keynote* for changing slides and video when I'm off-stage… genius! ●

RIGHT: Keynote slides for Ken's live show can be cued via his iPad or iPhone.
BOTTOM RIGHT: Ken's setup centres around his MacBook Pro with external monitor.
BELOW: Playing keyboards live in conjunction with Apple Mainstage.

BUDDY
VS THE
KILLER



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Gadgets

The hottest kit on the horizon. Here's what's got us excited

SCANSTIK
PLANon

▲ PlanOn ScanStik

£170 http://bit.ly/KHA2fJ

What is it? According to Planon, it's 'the world's smallest full-page colour scanner'. The pen-shaped 150-600dpi scanning tool can scan a page in around four seconds, and stores the image on a MicroSD. It features a rechargeable battery, can scan in colour or black and white, and comes with a leather carry case and OCR software.

When's it due? Grab one now.

Why are we excited? Having a carry-around scanner in your bag can prove really handy, if you're doing research in a reference library, for example, or are a travelling businessperson.

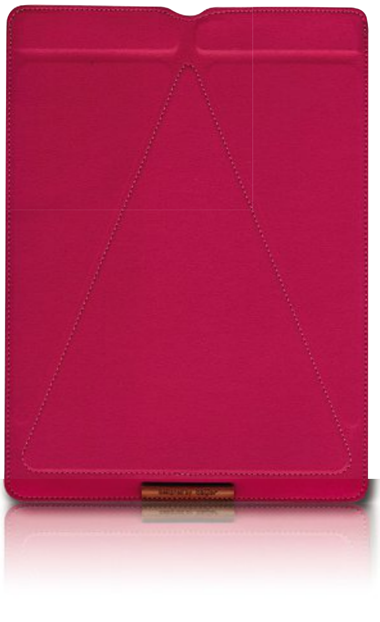
▲ Bang & Olufsen BeoPlay V1

From £2,000 www.bang-olufsen.com

What is it? It's the first TV from Bang & Olufsen's new B&O PLAY brand. You can expect to pay £2,000 for the 32-inch set, or £2,500 for the 40-inch model, but we're promised outstanding sound and best-in-class picture quality. Most interesting of all, it has a small cavity in the rear where you can mount your Apple TV box.

When's it due? Out now.

Why are we excited? Rumours abound that Apple is working on a television with the functionality of Apple TV built in. Until it arrives (which it may never do), this is the next best thing.



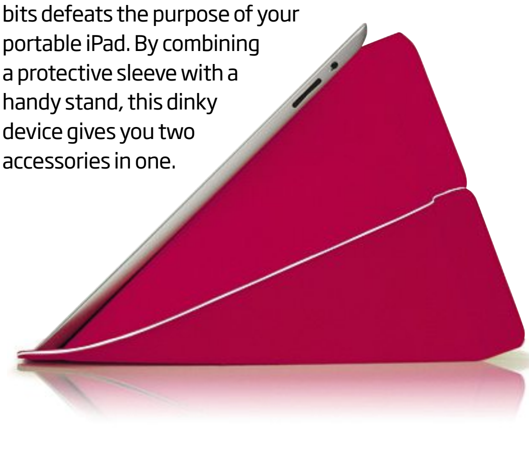
▼ Taylor Smart Stand & Sleeve

£50 www.caseaddict.com

What is it? After sliding out your iPad, this protective sleeve folds into a display stand. Magnets hold it closed, and it can tilt your tablet at two angles: a shallow one for typing and a deeper one for viewing. It can be used with a Smart Cover in place, and is available in five colours; beige, red, dark grey, brown and pink.

When's it due? Order online now.

Why are we excited? Carrying around extra bits defeats the purpose of your portable iPad. By combining a protective sleeve with a handy stand, this dinky device gives you two accessories in one.



▶ iTeufel Air

£430 **http://bit.ly/IX8aAY**

What is it? This stereo speaker bangs out 80 watts, and uses Apple's AirPlay technology so you can wirelessly stream your sounds all over your house direct from *iTunes* or your iOS device. It has two independent two-way stereo speakers for left and right channels, and a centrally positioned, down-facing subwoofer for bass.

When's it due? Out now.

Why are we excited? AirPlay speakers have been slow to appear, but at last they're catching on. Being Wi-Fi-based, AirPlay doesn't compress audio like Bluetooth, so you can stream better quality audio from your Mac, PC or iOS device. At last: cable-free music without compromising the sound.

▲ NETGEAR R6300 Wi-Fi Router

$180 (£127) **www.netgear.com/R6300**

What is it? Wi-Fi's getting faster. The next iteration of the Wi-Fi protocol is 802.11ac, which is up to three times faster than today's 802.11n standard. According to Netgear, the R6300 is the industry's first Wi-Fi-ac router. It's backwardly compatible with 802.11a/b/g/n devices, has two USB ports for storage and printing and brings AirPrint functionality to any networked printer.

When's it due? Late July/early August.

Why are we excited? While no current Macs offer Wi-Fi-ac, Apple is rumoured to be introducing it some time this year. With speeds of up to 1.3Gbps, it's ideal for streaming HD movies across your home network, but don't expect it to speed up your internet connection.

▼ Brydge

£TBA **www.thebrydge.com**

What is it? This Bluetooth iPad keyboard is built from aerospace-grade aluminium and designed to match the look and feel of your Apple tablet. It features a full key set and integrated speakers. Its magnetic hinge fits your iPad like a Smart Cover, and the rechargeable battery can last several months if you turn the speakers off.

When's it due? This Kickstarter project is aiming for a mid-October release.

Why are we excited? There are plenty of Bluetooth keyboard cases, but even the best of them fall short of greatness. If you bemoan the fact that Apple never released a netbook, this could be just what you need.

Feedback

CONTACT US

Whatever your Mac-related cares, concerns or calamities are, let us know about them by contacting us on the following email address: **macformat@futurenet.com**

Let us know what you think about your Mac, MacFormat and everything Apple

Get smart

The guys at Apple are smart. This week my company decided to change our Exchange Server provider, which meant migrating email and calendars.

I use Apple *Mail* and *iCal*, and everything was going smoothly until it came to my calendar migration – all of my personal entries had disappeared! A call to our previous Exchange provider brought the news that they didn't keep any backups.

I turned to *Time Machine* only to find that there was no evidence of any *Calendar* files. Fortunately, a colleague discovered there is a way of making hidden files visible using the *Terminal* prompt: "defaults write com.apple.finder AppleShowAllFiles TRUE". Five minutes later my *iCal* ICS files were located, restored and moved to our new calendar.

Thank you to the smart people at Apple for inventing *Time Machine*, the smart people on the internet who share their knowledge, and my smart colleague for pulling it all together. In summary, smart people use *Time Machine* – make sure you're one of them.

Steve Gaskin

MacFormat replies: *Time Machine* is an invaluable aid if you have lots of files being shuffled around your system. It's all too easy to delete something and regret it. Thankfully time travel is possible on a Mac!

Fuzzy logic

I've been a Mac user for about three years and have used *MacFormat* as a bible – I have learned a great deal. I wouldn't be as good a Mac user without it.

Of course, there is the potential to encourage spending. My first purchase was a 24-inch iMac three years ago, then an iPhone 4S for me and my wife, Apple TV, iPad 2 (writing this email on it), Airport Extreme and on and on. Yes, I'm Mac-addicted and have managed to encourage others into the world of Apple.

So one simple question: while reading my last couple of issues of *MacFormat*s on the iPad, I noticed it takes a few seconds to render the page, normally being fuzzy at first and then getting sharp after about a second or so. Although I can live with this, I never noticed it before and it's slightly irritating waiting to read the next (or last) page. Is this a 'feature',

STAR LETTER / The iPad really is a genuine business tool

STAR LETTER

Email all your letters to us at **macformat@futurenet.com** If yours gets picked as the MacFormat Star Letter, you'll be sent a fantastic DTT Deluxe. Almost impossibly tiny, this little USB device gives your Mac powerful digital TV reception.

My job involves travelling to various countries for an art materials company, but there is a big downside. Until recently my normal kit has been a PC laptop, charger, plugs, camera, small writing notebook, plus company catalogues. All combined they form the basis of my work and allow me to communicate back to HQ in London, as well as have everything I need when out in the field. But carrying this lot is literally a pain in the neck.

My company don't use Macs, although at home I'm a Mac addict using a Mac Pro. For me Macs just work seamlessly, and are far more reliable than Windows; sadly I have had various issues with Windows crashing spectacularly in the most awkward of places. However, I digress. A couple of us have invested in iPads and take them on our trips abroad to use as electronic notepads, read books and so on. But I have gone a lot further and am now planning to go further still.

An iPad with *Pages*, *Dropbox*, *Numbers*, *iPhoto*, *Viewbook*, *Neu Notes*, *iBooks* and the world-travel kit saves a massive amount of weight and space when compared to what we normally carry, with a reduction of about 80%. The total weight of my normal full kit is about 10kg to 12Kg and it's an absolute pain to carry and use on a daily basis.

So now all I carry is the iPad. I've also connected my iPad to our Exchange Server at work – thank you Apple for making it ridiculously simple – so emails can easily be accessed and written while in the field. Also when I am in the field, a quick photo can be taken then emailed or placed into *Pages* for my written report. Or if a customer wants to see our catalogue rather than carry four separate catalogues (totalling about 300 pages) they're all on my iPad, courtesy of Dropbox, and searchable as PDFs (this is one of the hidden bonuses of *iBooks*).

Of course, all are instantly accessible with no boot-up time. Emails can be sent in a jiffy and information shown on the fly as startup is instantaneous for all apps. The ten-hour battery life is the final killer, as my iPad has never been exhausted during a day's work, which is certainly not the case with a conventional laptop.

something since the release of the new iPad or an issue with my iPad 2 (64GB, Wi-Fi, 3G)? Finally, bring back the podcast, it was brilliant!

Nik Purnell

MacFormat replies: The issue you describe is the way that the app is rendering the PDF file. There are issues with some pages rendering slower than others – it also affects the iPad 3 because of the number of pixels it has to draw. If you find a particularly bad page, please mail apps@futurenet.com and we'll resolve it for future editions.

Time Machine lets you go back to before you did anything stupid…

Personal data

Recently I had to return my iMac for repair – the CD/DVD drive had failed. But before returning it I wanted to make it secure, as I have website passwords that are stored automatically, as well as my iTunes account details.

I ended up deleting the *Keychain* information and de-authorised the computer from *iTunes*. I also changed the root password as it was very close to the one I use for my *iTunes* account. However, I still wonder if this was sufficient and I would like to know what advice you would give to people returning computers for repair in order to keep personal data secure.

Interestingly, upon returning my iMac I had to sign a waiver agreeing that the reseller and Apple cannot be held liable for any loss or misuse of my sensitive personal data. While I understand why they do this it left me feeling they do not trust their own staff, and they also do not have effective methods and procedures for protecting my personal data.

Robert Gathergood

MacFormat replies: Probably the easiest way to do this is to use *Carbon Copy Cloner* (www.bombich.com) to clone the hard drive (or perhaps use a *Time Machine* backup), then wipe it clean by starting the iMac from the cloned drive and using *Disk Utility* to do a secure erase on the internal drive. It's a bit of a long-winded process if you have a large hard drive full of files, but it's the only way to be totally secure.

»

There are only three extra things I want:
A) Blackberry to offer a personal Wi-Fi spot, like the iPhone (otherwise I will be forced to buy an iPhone – oh shame!).
B) A version of *Numbers* that is easier to use. As an *Excel* user the transition is not easy. *Numbers* is the only app I feel can be improved.
C) To win the letter of the month prize, so I can see if I can plug in the prize digital TV tuner using the iPad camera connector. It's worth a try, but if it doesn't work then it will fit the Mac Pro I have!

Other than that, well done Apple, and I implore you to start marketing the iPad to the professional businessperson. You have no idea what a machine you have created for someone who is always working out of the office.

Finally, and to prove the point, I am writing this to you on a flight from Cape Town to Johannesburg, in Economy. Try doing that with a conventional laptop, especially when the seat ahead of you has just been reclined!

Len Archer

MacFormat replies: Thanks for your letter, Len. In response to your list: A) Tethering between an iPad and a Blackberry is possible, but involves jailbreaking the iPad, which we wouldn't advise.
B) Not sure we can really help with that one; we've no idea if Apple ever intends updating *Numbers*.
C) This isn't just because you asked, mind… We look forward to hearing if your experiment has worked!

Twitter @#! talk

From the Twittersphere

We asked:
If you were Apple, what company would you buy and why?

@johnny_winter
"I'm not rash; I'd dash to splash cash on Adobe to trash Flash."

@louiscutmore
"Twitter, the best social networking biz out there, already integrated into iOS and probably the way forward in comms."

@tilak67
"I'd buy Facebook – just to show the world that at Apple… it's not just about Twitter."

@merc5555
"I'd buy Microsoft and discontinue Windows."

@Macuser6278
"I would buy up Netflix. Video and music streaming is the future for Apple."

@BA22A
"Following on from the recent rumours, I would buy Valve and get Apple firmly on the gaming map."

@adamjackdrew
"McLaren (the whole shebang), McLaren are to the car world what Apple is to the tech world."

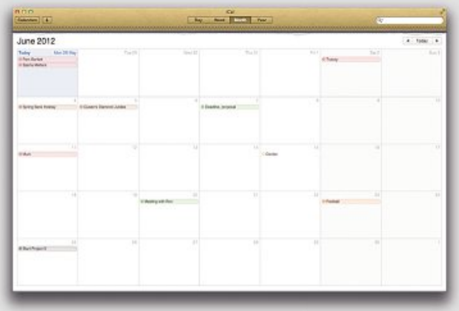
@VLFerreira
"I'd buy more PC v Mac adverts, I miss seeing both US and British versions. Always made me laugh!"

You can find out what we're up to each month by following the team at Twitter.com/MacFormat

BIG CAT DEBATE / Is Lion dumbing down OS X?

Thank you for publishing Andrew Drane's letter in issue 247. Reading Andrew's response, I sense that he is very comfortable with using OS X. That's great, but it dismisses the needs of many others who may be less experienced and/or visually restricted.

Andrew dismisses the use of colour in the GUI, citing location as more important. That presumes that the user has a high level of familiarity with the interface. In my experience, not all do.



If you have partial sight, colour equals clarity. It can help locate buttons and bars more quickly.

It stands to reason that removing colours reduces clarity - introduces confusion even. Milk is colour-coded for a reason. I know that red is skimmed and I can locate it quickly in the supermarket. Imagine if all the packages on the shelf were grey with slightly darker grey lids?

Likewise, symbols are used to convey meanings that we can process faster than words. It's also why we use symbols for road signs - it's quicker for us to read and understand a symbol than words. Symbols also transcend written language.

Andrew makes a point about consistency. What he's really talking about is the unification of iOS and OS X interfaces. I understand what he says, but an iPhone remains a very different device to a 27-inch iMac. I'd prefer that Apple spent time introducing consistencies in functionality rather than appearance; the way appointments are made in *Calendar* and *iCal*, on iOS and OS X, for example.

Normally I am an early adopter, keen to try new things. It's just that Snow Leopard is so good! Lion is leading the 'dumbification' of the user interface on OS X. It's not just me who thinks that: some developers do, too. And look at the new *Airport Utility*!

Since my original letter, I upgraded my three Intel Macs to Lion and it's not quite as bad as I feared. My original criticisms remain valid and I could add plenty more if only space in your magazine would allow. Despite that, I am looking forward to the release of OS X Mountain Goat!

Don Winger

MacFormat replies: We have to disagree about symbols and icons – we only know road signs because we all have to learn the highway code, plus their meaning is relatively simple. But for interfaces, you can't beat having words rather than having to learn new icons, or having to hover over them for the Tooltip to show up. That's why so many pro-level apps use word-based labelling. For more on what's wrong or missing from OS X, check out the feature in next month's issue.

No more iPad?

Is it just me who thinks the new iPad will be the last one? Joe Shanklin (Feedback, May 2012) raises a point about the new iPad as being a stopgap.

Surely, the clue is in the name? Apple has called this the new iPad, not iPad 3. Call it iPad 3 and then what follows is iPad 4. Call something the new iPad and what follows cannot be the even newer iPad, can it? This suggests Tim Cook has something up his sleeve, but maybe not until next March. If that's the case, then the latest iPad makes the perfect stopgap between the iPad 2 and the potential new product.

Alternatively, perhaps there's a name-change on the cards? Whatever happens, in my opinion, the new iPad suggests there will not be an iPad 4.

Simon Whaley

MacFormat replies: It's possible Apple wants to get away from the numbering convention, so it's more like the iMac or Mac Pro. In terms of evolution, the display can't get any better, so all Apple can do is improve the performance and battery life. It may well be that the company reverts to the Build To Order system where you choose your processor, RAM, wireless connection, and so on. But is this the last iPad? Absolutely not!

TV revolution

I've been waiting a while to see how Apple would revolutionise the TV set, and so, when I saw adverts for the Samsung SmartTV, I was amazed. It has Siri-style voice recognition, plus face recognition and motion control, like Microsoft's Kinect. It's controllable via a Samsung phone and has access to the latest on-demand services plus social media channels, photo sharing, an interactive kids channel and it's 3D! For once it looks like Samsung has the drop on Apple; it will be interesting to see how Apple competes without looking like the copier, rather than the innovator.

Stevie Jay

MacFormat replies: Samsung has been making televisions since the 70s, so it's no surprise it's pushing this new breed of SmartTV. Apple's set (assuming one ever does appear) will, no doubt, deliver similar interface functionality, but Apple has the benefit of the *iTunes* store, and its iOS ecosystem. It will be interesting to see this unfold. ●

APPLE EVENTS / What's going on?

MACFORMAT Issue 250
17 July

Next month *MacFormat* celebrates its 250th issue. We've got some big surprises lined up, so don't miss it!

OS X & iOS 5 TRAINING CAMP, Portugal
26 June - 4 July

A unique event that brings together technical professionals for Apple technical training in a stimulating environment.

iTUNES Festival, London
September

Apple's UK music festival is back with 60 acts, including Usher, Jack White, Norah Jones and more, at London's Roundhouse.

IBC EXHIBITION, Amsterdam
6-11 September

If you're in the business of content creation, management or delivery then you won't miss this key European industry event.

AD:TECH LONDON
19-20 September, Olympia

A hub for the UK online marketing and advertising industry. A place to catch up with the latest digital industry trends.

APPULE PRO USER EXPO
11-12 October, The Barbican

The contentiously titled 'Appule' expo is the first Apple-focused show to take place in London since 2008. Tickets set to go on sale in June.

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Words: Gary Marshall **Illustration:** Britt Spencer

MacFormat investigates

Tim Cook: the first year

For Apple's new CEO, Tim Cook, the honeymoon period is over. How is he doing, and where will he be guiding Apple next?

When Tim Cook took over as CEO in 2011, many pundits predicted the end of the company. Without Steve Jobs, they said, Apple was doomed. Since then Apple has become even more successful. Apple fans say that's because Tim Cook is the right man for the job, the keeper of Steve Jobs' flame, but critics say he just hasn't had enough time to mess things up yet. So who's right?

Don't be evil

Tim Cook has been with Apple since 1998. Under his watch Apple has become one of the most profitable companies the world has seen.

> ”Cook subcontracted Apple's manufacturing, eliminating inventory and making Apple amazingly profitable“

Cook is the man who delivered Steve Jobs' promises. Describing inventory – warehouses full of unsold kit – as "fundamentally evil", Cook subcontracted Apple's manufacturing, almost eliminating inventory and making Apple amazingly profitable. Where other electronics firms struggle with single-digit profit margins, Apple's gross margins can be higher than 45%.

Cook also negotiated deals and invested in suppliers to guarantee that when Apple needs components, it gets them – often at the expense of rivals, who can't get parts in the right quantities and at the right price. As one industry insider put it: "If it weren't for Tim Cook, the iPad would cost $5,000." Apple might have survived without Cook, but it almost certainly wouldn't have thrived. Without his mastery of Apple's manufacturing and distribution, Apple wouldn't be shaping up to become the first trillion-dollar corporation in history.

Workaholism aside, Cook (who is known for his 4.30am emails) is very different to the man he succeeded. Cook is understated and softly spoken, a thoughtful man who's happy to share the limelight. When he unveiled the iPhone 4S, his first post-Jobs keynote, Cook delegated most of the presentation to other Apple executives. That wasn't just first-night nerves, either, as the launch of this year's new iPad was a similarly egalitarian affair.

By all accounts, Tim Cook is a very likeable man, but still has a core of steel. As CNN reports, in 1998, Cook held a meeting to discuss a problem in China. "This is really bad. Someone should be in China driving this," he said. Half an hour later, he turned to Apple's Operations

»

Tim Cook may be of different character from Steve Jobs, but he shares the same passion for Apple and its products.

britt spencer

TIM'S TEAM / Apple isn't just about one man…

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Tim Cook doesn't sail the Apple ship alone: he's backed by a talented team of executives, some of whom came to Apple from surprising places. The best known Apple exec is probably **Jonathan Ive [1]**, who has rightly been garlanded with endless awards for his team's superb designs. **Scott Forstall [2]** was one of OS X's architects and now runs iOS, while **Jeff Williams [3]** was largely responsible for the launch of the original iPhone and now runs worldwide iPhone and iPod operations. Former Silicon Graphics Senior Director **Bob Mansfield [4]** is the Mac maker, in charge of hardware engineering, while **Eddy Cue [5]** played a key role in developing the online Apple Store, iTunes Store and the App Store, and is responsible for Apple's online software and services. Long-time Apple employee **Phil Schiller [6]** is in charge of worldwide marketing, having had stints at Macromedia and Massachusetts General Hospital, where he was a programmer and systems analyst. Former Intel legal chief **Bruce Sewell [7]** runs Apple's government and legal affairs, **Peter Oppenheimer [8]**, who's been with Apple since 1996, counts the money, and **John Browett [9]**, ex-Chief Executive of Dixons, is in charge of Apple's retail stores.

Apple Exec images courtesy of Apple

Tim isn't a magnetic presence like Steve Jobs, and he delegates most of his keynote time to other Apple executives.

Kevork Djansezian/Getty Images

Executive Sabih Khan and said: "Why are you still here?" Khan got the message and was on the next plane to China.

One thing Cook doesn't do, though, is go ballistic. Compared to him, Steve Jobs was the Incredible Hulk.

Hulk smash

While, to the best of our knowledge, Steve Jobs never turned green or smashed up a tank, his rages were famous. But were they effective? Jobs' penchant for yelling at and even humiliating staff isn't necessarily the reason Apple is so successful. It's possible that Apple thrived despite Jobs' bullying, not because of it.

There's no doubt that Steve Jobs' self-belief did Apple an enormous amount of good. It took Apple from a garage to the rich list, and Jobs' insistence on perfection meant when he demanded the impossible of Apple's engineers, they delivered it. However, while his instincts were often right his petulant behaviour often made enemies for Apple. Apple is hated as much as it is loved, and in many cases, that's because of Jobs: the Jobs who hit out at environmentalists who said Apple could be a better corporate citizen; the Jobs who was dismissive of concerns about sweatshop labour; the Jobs whose response to genuine concerns was often to pretend they didn't exist; the Jobs who was a bully with an ego the size of a planet.

> *"One thing Cook doesn't do, though, is go ballistic. Compared to him, Steve Jobs was the Incredible Hulk"*

Tim Cook isn't like that, and while business isn't a popularity contest, Jobsian tantrums don't always work. Take Android, for example, a "f***ing stolen product" that Jobs vowed to wage "thermonuclear war" against. "I will spend my last dying breath if I need to, and I will spend every penny of Apple's $40 billion in the bank, to right this wrong… I'm going to destroy Android," Jobs told biographer Walter Isaacson.

So how's that war going? Samsung – one of Android's biggest cheerleaders – is now the world's biggest smartphone vendor, and Apple is losing as many lawsuits as it's winning.

Jobs' war is an unwinnable one, and Tim Cook knows it. That's why he's currently negotiating with Samsung to end the two firms' ongoing eye-for-an-eye lawsuits. Speaking to financial analysts during April's earnings call, Cook said he has "always hated litigation, and I continue to hate it… I highly prefer to settle versus battle." That doesn't mean he's a pushover, though: "The key thing is that Apple does not become the developer for the world. We need people to invent their own stuff," he added. But unlike Jobs, he's not on an anti-Android crusade. If tit-for-tat legislation isn't helping Apple, Cook will kill it.

The nice man cometh

Cook isn't just more affable than Jobs. He's more generous too. In February, he told Apple staff that he'd donated $100 million of Apple's money to charities, with $50 million to hospitals and a further $50 million to Product Red. Apple now matches employees' charitable donations to the tune of $10,000 per employee per year, and it appears to be more charitable to employees and investors too: under Cook's watch Apple has introduced dividend payments for shareholders and deep product discounts for staff. It's in stark contrast to Steve Jobs, who reportedly told employees that giving money to charity

»

» NO MORE MR NICE GUY

By all accounts Tim Cook is very unusual: he's a nice guy in an industry that often seems to prefer bad guys to run its companies. Steve Jobs, of course, was famously difficult to work with, but he's not the only one. So does tech need tyrants? It certainly looks that way…

Larry Ellison Oracle

The self-made billionaire and founder of Oracle Corporation didn't really tell Yale's class of 2000 that they were "a thousand losers". That was a spoof story by SatireWire. But, if he had, few people would have been surprised. Ellison's favourite phrase is apparently one of Genghis Khan's: "It's not enough that I succeed. Everyone else must fail." As the title of a 1997 (unofficial) biography puts it, "The difference between God and Larry Ellison: God doesn't think he is Larry Ellison."

Eric Schmidt Google

Schmidt served on Apple's board as the iPhone was being developed, but forgot to tell Steve Jobs that Google was working on its own mobile OS, Android.

Bill Gates Microsoft

These days he's using his vast accumulated wealth to save lives, but in his Microsoft days Bill Gates was known for his ruthless approach to business. Former business partner, Paul Allen, wrote a devastating memoir alleging that Gates was what *The Independent* calls "a ruthless schemer who demeaned his employees and conspired to rip off his business partner."

Mark Zuckerberg Facebook

Many observers see distinct parallels between the Facebook founder and Bill Gates, although Gates never had David Fincher make an entire film about the sort of man he is. Zuckerberg has been variously accused of hacking rivals, accessing users' personal data and even nicking the idea for Facebook from his former associates.

Marc Benioff Salesforce.com

According to Valleywag, the Salesforce.com CEO is a "petty tyrant, puffed up by IPO wealth and nauseatingly fawning profiles that he's come to believe." We think that means they don't like him very much.

Is the iPhone 4S a sign that Apple's innovative days are over, or just another incremental upgrade before a mind-blowing iPhone 5?

"On May 19 remind me it's dad's birthday"
Here's your reminder for May 19, 2012 at 9 am:
19 Saturday May 2012
Dad's birthday
Cancel
Confirm
Crop Photo
Crop
Constrain

Owen Liu/Apple Inc. via Bloomberg via Getty Images

Faced with criticism of Apple's operations in China, Tim Cook visited the plant and appointed auditors.

was a waste of time. He also believed dividends wasted cash that Apple could better spend on making new products.

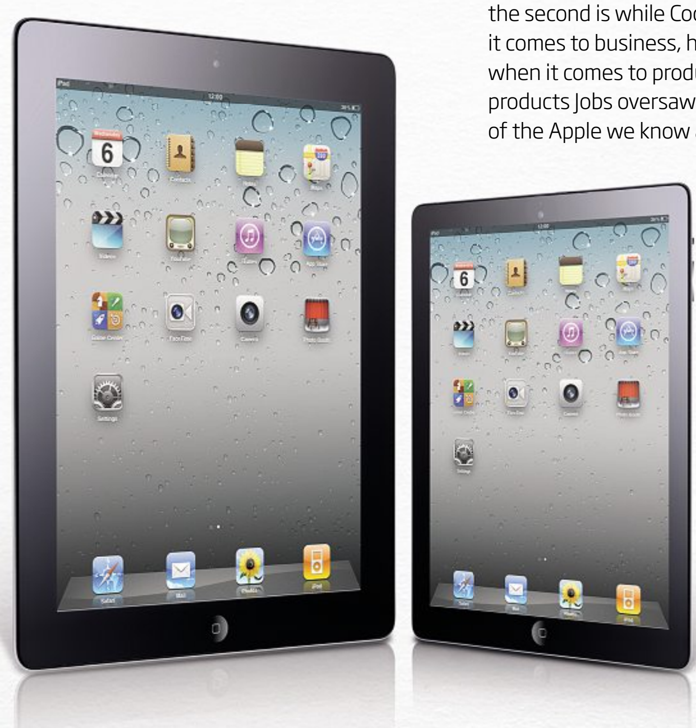
The dividend issue shows another difference between Jobs and Cook. Writing on The Street, Jim Cramer was one of several analysts who believed that Cook's timing was terrible. "What bothered me was that this was a very special weekend for Apple, the weekend the iPad hit the stores, and… the dividend stole the thunder from the actual story, a new device that I think is taking America by storm." Jobs, it's safe to say, wouldn't have let that happen.

In May, Tim Cook achieved something Jobs couldn't: offloading the burden of updating Java to Oracle. Jobs spent years trying to persuade Oracle to take responsibility for Java on OS X. And now, in the wake of the Flashback Trojan horse, Tim Cook has managed just that.

Tim Cook, then, is a smart guy. But is he a product guy? Speaking to Forbes, former Apple engineering Vice President Max Paley said Apple's engineer-driven culture appears to be changing. "I've been told that any meeting of significance is now always populated by project management and global-supply management," he said. "When I was there, engineering decided what we wanted, and it was the job of product management and supply management to go get it. It shows a shift in priority."

Core concerns

Apple watchers have two concerns: whether Jobs left Apple with enough product ideas to keep the company on top for another few years; the second is while Cook may be a genius when it comes to business, he might not be a genius when it comes to products. The fear is when the products Jobs oversaw run out, that'll be the end of the Apple we know and love.



If Tim Cook greenlights an iPad mini he's not necessarily ignoring Steve Jobs' wishes: Jobs often dismissed products Apple would later go on to ship.

Critics argue the evidence is right in front of us. The biggest Cook-era products so far, the iPhone 4S, the new iPad and the latest Apple TV, are minor upgrades to existing products, and if rumours of an iPad mini are correct, then Cook is signing off on products that Steve Jobs rejected. He's already green-lighted the new Apple TV interface which, according to former Apple TV engineer Michael Margolis, was "tossed out five years ago because SJ didn't like it. Now there is nobody to say 'no' to bad design."

When Steve said no

It's important to take Steve Jobs' dismissals with a pinch of salt, as he often derided products Apple would go on to make. He dismissed tablets ("People want keyboards"), mobile phones ("We didn't think we'd do well in the cellphone business") and ebooks ("People don't read any more"), among many, many others. Jobs' dismissal of seven-inch tablets and Apple TV designs could have been because they weren't right at the time.

The idea that Jobs wouldn't have unveiled the iPhone 4S is odd, too, as Jobs was still involved in Apple during its development. Apple has always made incremental updates: the iPhone 3GS was a relatively minor update to the iPhone 3G. And concerns about Apple's ability to design more great products are rather insulting to Jonathan Ive, whose group remains one of the most talented design teams in the world.

Is Tim the right man to run Apple? Perhaps the best people to ask are the ones who actually work there. US careers site Glassdoor surveys top firms' employees, and, in March, Apple staff gave Tim Cook a 97% approval rating, placing him above every other CEO in the tech industry. That suggests that when Cook promised to defend Jobs' legacy, he meant it.

Tim Cook is measured whereas Steve Jobs was explosive, Cook is inclusive whereas Jobs was arrogant, and Cook is pragmatic whereas Jobs was destructive. But they share one key attribute: a genuine passion for Apple, its products and its customers. ●

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Discover the world of AirPlay
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Plus! If you are a new UK subscriber we'll send you a copy of *The Ultimate iTunes & iCloud Guide* from the creators of *MacFormat* and *Tap!* magazine.

iTunes is the world's biggest music retailer. This is your expert guide to the entire Apple entertainment and media ecosystem, including the all-new iCloud and iTunes Match facilities.

This guide gives advice and information on how to make the most of the entertainment and resources on your Apple devices. *iTunes* is so much more than just music and we've got it all covered. The combination of iTunes and iCloud means you can now make the most of music, apps and books. And with iTunes in the Cloud – and iTunes Match offering over 20 million songs from the iTunes Store – you've got access to your entire collection, wherever you are.

Sharing made easy

Words: Hollin Jones

Why keep all your data on one Mac or iPad when you can share it with anyone? Find out how with our ultimate guide to sharing…

iPhoto
File
Edit
Photos
Events
LIBRARY
Events
Photos
Faces
Places
RECENT
17 Nov 2007
Last Import
Last 12 Months
Photo Stream
Flagged
Trash
ALBUMS
For iPad
Nathan & Jacob
WEB
Graham Barlow
Graham Barlow
gbarl30
PROJECTS
Holiday snaps
7 Sep 2010 Card
SLIDESHOWS
Nathan & Jacob 2009
Last Import
Zoom

Not too long ago, people tended to own one computer on which they would store all their data, occasionally moving it around using floppy discs, CDs or USB memory sticks. And although we're only a few years down the line from those times, the concept of stuff living on a single machine now seems very outdated.

As technology has developed rapidly, the ways in which you can transfer, share and send files have become many and varied. The rise of the internet is the biggest factor in allowing this to happen, providing an increasingly fast and easy way to send documents, pictures, music and even movies between devices and around the world. Faster home broadband connections are at the point where uploading stuff no longer takes hours, and a good 3G connection when you're on the move can be just as effective for sending and receiving files.

Networking computers used to be a real hassle, but with modern operating systems, it has become far easier. AirDrop in OS X 10.7 is perhaps the ultimate expression of simple file sharing, a system that doesn't even require the two Macs sharing files to be on the same wireless or ethernet network. Sharing media has become simple too, with apps like *iMovie* and *GarageBand* allowing direct uploads to popular streaming sites, and iTunes Home Sharing and Match giving you much more flexible access to your media at home or on the move. Read on to find out how sharing data can free you from your desk… »

SHARING MADE EASY «

Set your media free with iCloud and other share-friendly features of OS X.

Share View Window Help
Mon 2 Apr 15:50
iPhoto
Lost again?
14 of 14
Info Edit Create Add To Share
MacBook Air
Photos
Big Hugs!
Edit
Orange
15:55
Beach
11 of 11
Edit

Sharing at home

There are lots of ways to share files at home, and it's easier than you think…

Sharing your data across a home network has been possible for a long time, but it's only in recent years that it has become really simple, at least if you're using Macs. We'll skip past the old-fashioned methods of using USB memory sticks or burned DVDs to move stuff; although these are still possible, they're quite labour intensive.

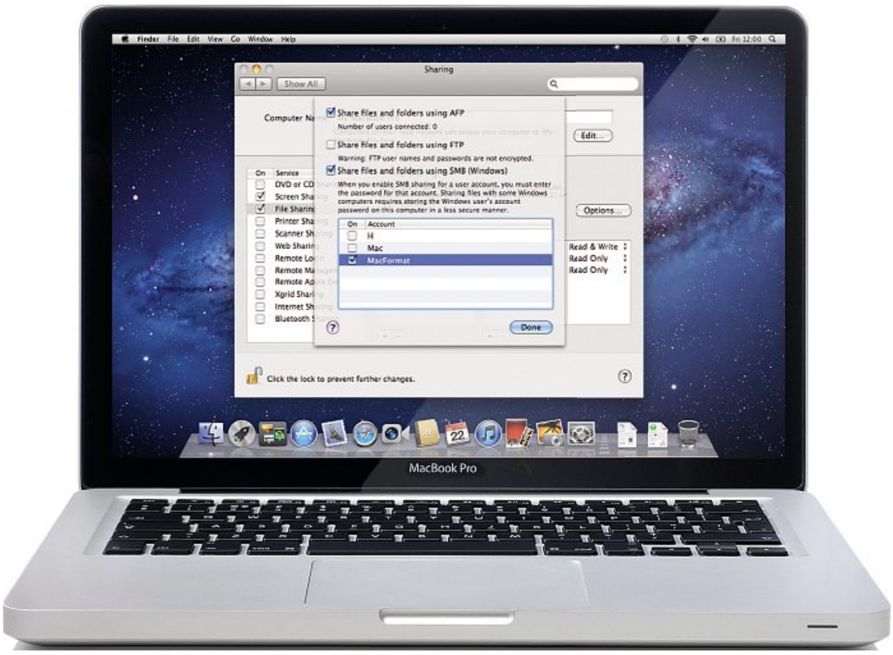
These days, it's all about being networked, and the most common way to network computers is using Wi-Fi. There's a good chance you're on wireless broadband at home anyway. And even if your computer connects to your modem using an Ethernet cable, you can still share its wireless connection (and even its broadband connection) to other computers over Wi-Fi. To do this you go into the System Preferences > Sharing tab and switch on Internet Sharing. To share files between computers, you can create a network on one computer from the AirPort menu and then join that network from the other computer.

Neither computer has to have an internet connection for this to work, as you can achieve the same thing by connecting the two machines using an Ethernet cable. On supported models you can even use FireWire Target Disk mode by connecting two Macs using a FireWire cable and booting one while holding the T key. This boots the 'slave Mac' as a hard drive on the host Mac and only supports the dragging and dropping of data from one to the other, so it's a basic but effective way of connecting the two.

To share files on a Mac you need to go into System Preferences > Sharing and make sure the File Sharing service is turned on. This means the computer will appear in the sidebar of other Macs on your network and broadcasts itself as an available device. Also in this window you'll find a list of shared folders you can edit and add to. By default, each user's Public Folder is shared and when someone connects to it over a network they'll see its contents as well as being able to drop items into the Drop Box folder. They can't see the contents of the Drop Box, so it's a secure way for people to transfer stuff to you without altering the contents of the folder afterwards.

For each shared folder you'll also see a list of users, and what their access permissions are for that folder. By default, you have ownership of

> *"FireWire Target Disk mode is a basic but effective way of connecting two Macs"*



☑ Share files and folders using AFP
Number of users connected: 0
☐ Share files and folders using FTP
Warning: FTP user names and passwords are not encrypted.
☑ Share files and folders using SMB (Windows)
When you enable SMB sharing for a user account, you must enter the password for that account. Sharing files with some Windows computers requires storing the Windows user's account password on this computer in a less secure manner.

On	Account
☐	H
☐	Mac
☑	MacFormat

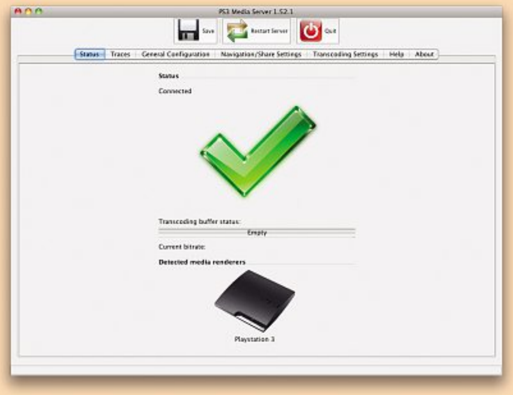
Read & Write
Read Only
Read Only

Click the lock to prevent further changes.

Set up custom shared folders on your Mac and assign different users permission to access them over a network.

» MEDIA STREAMING / Share media with more than just an Apple TV

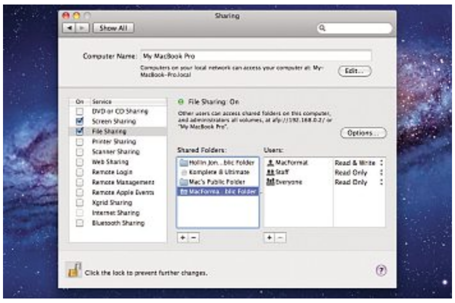
Although the Apple TV is an elegant solution to media streaming, there are other possible alternatives. You might for example have a games console, most of which are fully network capable but not part of Apple's ecosystem. To share music, movies and pictures from your Mac to a console you can use a third-party app like the excellent *PS3 Media Server*, free from **www.ps3mediaserver.org**. This opens up a connection on your wireless network and makes your Mac appear as a media source on your PS3. Henceforth, you can stream media directly between the two, and it even supports live transcoding, so any weird and wonderful video formats will be converted in real time as you stream – although this does require a recent Mac due to power demands. Developer Nullriver Software also makes the excellent *MediaLink* application to do much the same, as well as *Connect 360* to stream to the Xbox360.



Status
Connected
Transcoding buffer status:
Empty
Current bitrate:
Detected media renderers
Playstation 3

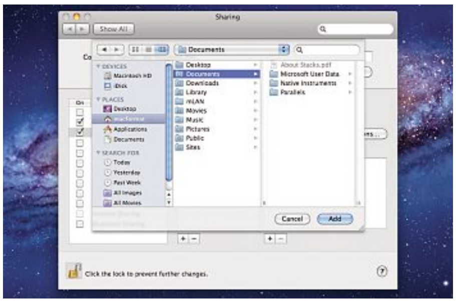
Free streaming apps like PS3 Media Server can stream movies, music and pictures to a console with live transcoding.

» HOW TO / Set up file sharing at home



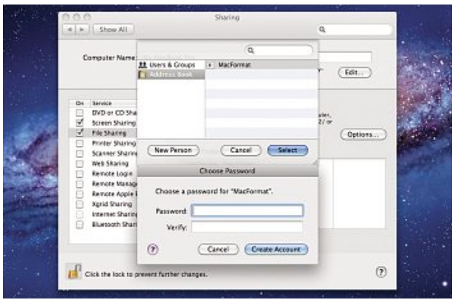
01 Turn on sharing

Go into the Sharing section of *System Preferences*. Locate the File Sharing option in the list of services and click its tick box to make sure it's switched on. You can give the computer a unique name in the box at the top – this is what will be broadcast across your network.



02 Add extra folders

Click on the plus icon underneath the list of shared folders and you can choose any folder that you own to share with other users. By default your Public Folder is shared and users will be able to place things in the Drop Box. To create more shared folders, add them here.

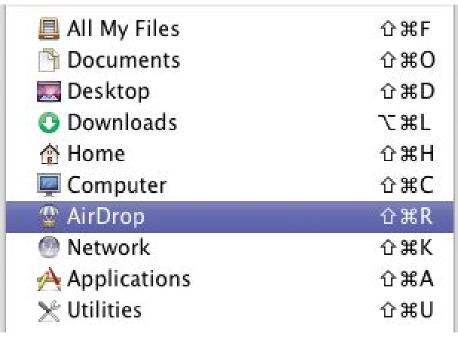


03 Set a password

In the list of users to the right, click the plus icon to add a new user. If you select an *Address Book* entry you can set a password for that user and create an account on the local machine for them. With this information they'll be able to access your shared folders. ●

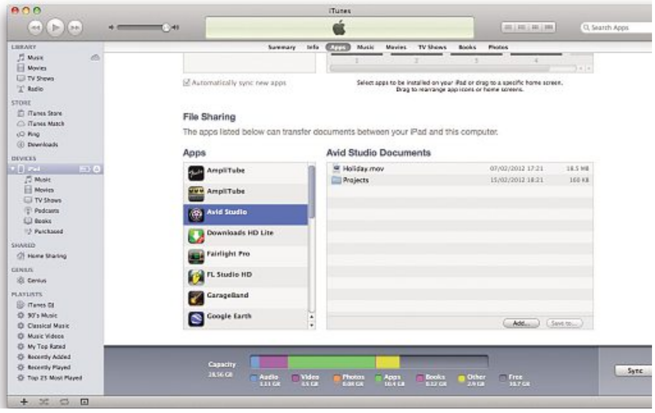
folders inside your Home directory but you can choose to assign other users from your *Address Book* with specific access, setting them up a password. So if you wanted a friend to be able to access and edit a certain folder on your Mac, this would be how to do it.

Under the Options menu in the File Sharing section you also have the option to turn on file sharing over FTP in addition to the default AFP protocol. If you activate the third option, SMB, you can share files and folders with Windows PCs on a network. Windows uses different file sharing protocols to the Mac, so switching on SMB should ensure that your Mac communicates with any connected PCs and broadcasts itself properly to them. If you're running a mixed network and need to move files between Macs and PCs, turning on SMB sharing is a must. You may also find that you need to go into your AirPort preferences and find the WINS section, then add your Mac to a Windows workgroup, which will probably be called MSHOME or WORKGROUP. You can find this by going to My Computer > Properties > Computer Name on the PC. It might take a little work, but it should get you sharing between platforms.



AirDrop on OS X 10.7 can make file transfer between Macs easy even without a network connection.

Dragging and dropping files and folders between Macs is also possible using AirDrop if you're running OS X 10.7 on both machines. This uses 'invisible' networking with no setup to discover other AirDrop capable Macs in range and make them visible to you in the *Finder* sidebar. Drag and drop files to a user's picture to share them. Oddly though, Apple only enables AirDrop on specific, newer Mac models, a list of which can be found at http://support.apple.com/kb/HT4783. This is because it uses special features of certain wireless chips, and can work between Macs even if they aren't connected to a network. As annoying as this is, if yours is not supported, there is a workaround as long as you're running 10.7. Open the *Terminal* application and type: `defaults write com.apple.NetworkBrowser BrowseAllInterfaces 1`. Then quit *Terminal* and log out and back in again. You should now see AirDrop in your 'Go…' menu. The difference is that it will only work when both Macs are on the same network.



iTunes can be used to drag and drop files to and from an iPad, including unsupported files like AVI movies, for native playback. It's a great way to manage media.

> “Dragging and dropping between Macs is also possible using AirDrop if you're running OS X 10.7“

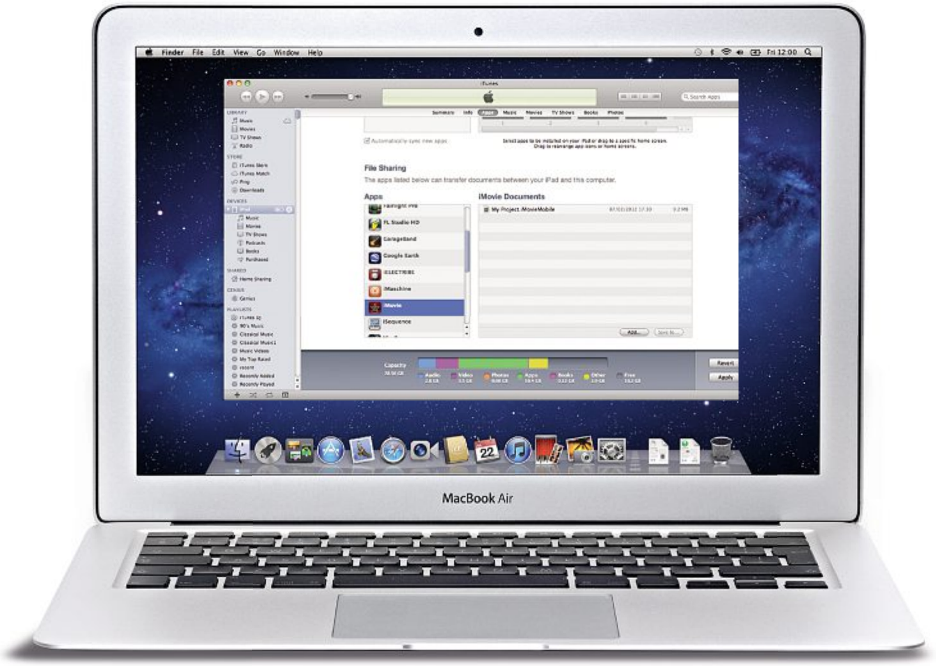
If you have an Apple TV you can stream your *iTunes* library to it to view on your TV. Third-party apps such as *StreamToMe* and *Air Video* can stream from your Mac to an iPad with live video conversion, so there's no need for an Apple TV. Using the iTunes File Sharing section (see the page overleaf), you can share media between your Mac and your iPad outside of Apple's syncing system by dragging and dropping movies, photos and other things directly to an app. You can copy movies that are not in *iTunes*-friendly formats directly to an iPad. You can drop AVI movies and various others without having to convert them to M4V or MP4 format first. Various iPad apps can do this, including *VLC*, *AVPlayer HD*, *CineXPlayer*, *Movie Player* and *GoodPlayer*. »

Sharing with iTunes

As the centre of your digital hub, iTunes lets you share in different ways…

Apple's *iTunes* has come a long way since its early days as a simple jukebox. Now it lets you purchase, play and share all your music and movies in a multitude of different ways. It's grown to support all of Apple's iOS devices as well as integrating with iCloud, adding internet storage to its list of capabilities. If you have an iPad you can connect it to your Mac using a USB cable. Then in *iTunes*, go to the device and find its Apps tab. Scroll down and you'll see a File Sharing section where various apps are displayed; these are the apps that can swap data with your Mac. It's possible to drag and drop items out of the list to your Mac, or into the list to copy them to your iPad. If you're running iOS 5, this whole process also works wirelessly if you have enabled Wi-Fi sync in *iTunes*.

At a basic level, *iTunes* stores all its data inside a single folder on your hard drive, which by default, is located inside your Home directory in the folder Music/iTunes. Inside this folder it keeps everything, from music and movies to books and mobile apps, as well as your master library file, artwork and backups of your iOS devices. It's important to activate *iTunes'* option to copy all music to this root folder, so it's not scattered randomly around your hard drive (from previous occasions when you may have dragged and dropped music into *iTunes*). You can find this in *iTunes'* Preferences > Advanced section. It is possible to share an iTunes library by moving it from this directory to an external or networked hard drive so that it can be accessed from different Macs. After copying the whole *iTunes* folder, go into the Advanced preferences again. In the iTunes Media Folder location box, click to navigate to the folder's new location, which can be over a network as well as on a local hard drive. On other Macs on the network, hold down the ⌥ key while starting *iTunes* and from the chooser, select Choose iTunes Library, then navigate to it. You only have to do this the first time you want to use the shared library.



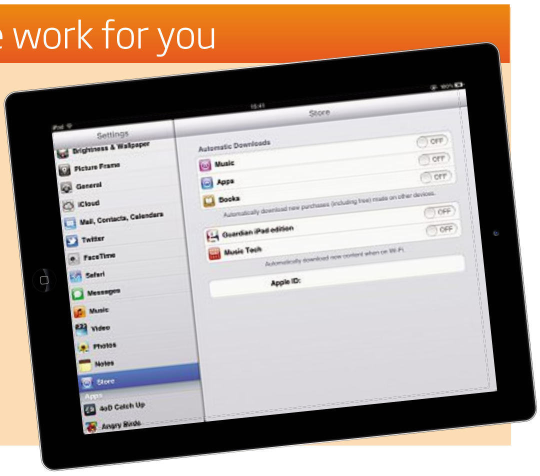
iTunes' File Sharing section appears when you connect an iPad or iPhone, and lets you share app data easily.

> *"It's possible to share and stream music and movies across your home Macs with Home Sharing"*

It's possible to share and stream media across your home Macs even without physically moving *iTunes'* library, using Home Sharing. This feature can be switched on in *iTunes'* Advanced menu and you'll be prompted to enter your Apple ID. After this, *iTunes* will broadcast itself to other copies of *iTunes* on the same network. If you sign in on those Macs using the same Apple ID, you'll be able not only to play music and videos from the library, but drag and drop them to that Mac's library as well.

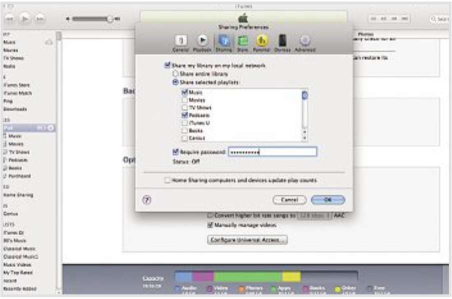
>> AUTOMATIC DOWNLOADS / Let iTunes do the work for you

When you buy something from Apple's iTunes or App stores on iOS or the Mac, it becomes available to download on any other devices authorised with your Apple ID. Let's say you buy an album on your Mac. On your iPad or iPhone, go into the *iTunes* app and select the Purchased tab. You'll see a list of all the music purchases made through your account, and be able to download the tracks for free to your device. Tap to view movie and TV purchases made with the same account and they can be downloaded too. The same applies with ebooks bought through iBooks and Apps bought through the iOS App Store. On an iPad and iPhone you can turn on Automatic Downloads, so that when you buy something on one device it automatically downloads to the other, as long as both use the same Apple ID.



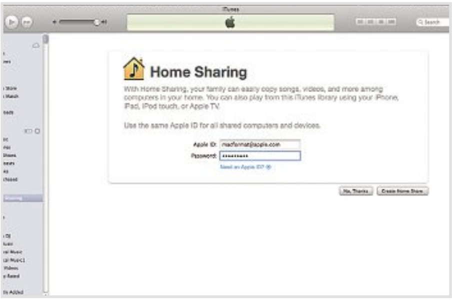
Set your device to auto-download purchases made elsewhere using your Apple ID.

» HOW TO / Turn on iTunes Sharing



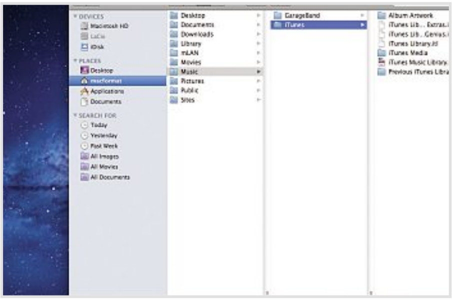
01 Open the Preferences

In *iTunes*, go to the Preferences section and locate the Sharing tab. Click to turn on sharing and select either the whole library or specific playlists within it. You can also set up a password: those who know it can stream music across the network to their copies of iTunes.



02 Turn on Home Sharing

Go to the Advanced menu in *iTunes* and choose to Turn On Home Sharing. You'll need your Apple ID and password. With Home Sharing activated on another Mac on the local network, a user will be able to drag and drop music and movies from your library to theirs.



03 Move the library folder

Go to your Home directory and find the Music > iTunes folder. If you have set *iTunes* to always copy new music into the library folder, this will contain all your music as well as the master library file. By copying this folder to an external drive, you can free up disk space. ●

The ability to physically copy files rather than just streaming means you can sync the files to different iOS devices. The fact that you have to use a single Apple ID for Home Sharing means that piracy is not really possible, but within the confines of a single house, your music and movie collections can be used more flexibly.

If you don't want to use Home Sharing, *iTunes* has a simpler sharing service, in the Preferences > Sharing section. Activate this and you can share either the whole library or selected playlists locally, with optional password protection. An Apple ID sign-in isn't required, but this service only allows streaming, not physical copying. Go into *iTunes'* Advanced menu and you can choose to turn on Photo Sharing from *iPhoto* to your Apple TV using Home Sharing, and also share any videos that are present in your *iPhoto* library. If you activate Photo Library sharing from *iPhoto*, it shares to other copies of *iPhoto* on the local network.

> *"If you activate Photo Library sharing from iPhoto, it shares to other copies on the network"*

Control your syncs

As we've mentioned, it's possible to move data between Macs and iPads via the traditional USB cable approach, or wirelessly if you're running iOS 5. Some people still like to use Apple's syncing system, which automatically synchronises music, movies, apps and other media when the two are connected. You can control what syncs by going to the device in *iTunes* and selecting what to include. One of the benefits of syncing like this is that *iTunes* can choose music for you and transfer it. Others prefer to manually manage data since it offers rather more control, letting you drag and drop from *iTunes* to the iPad.

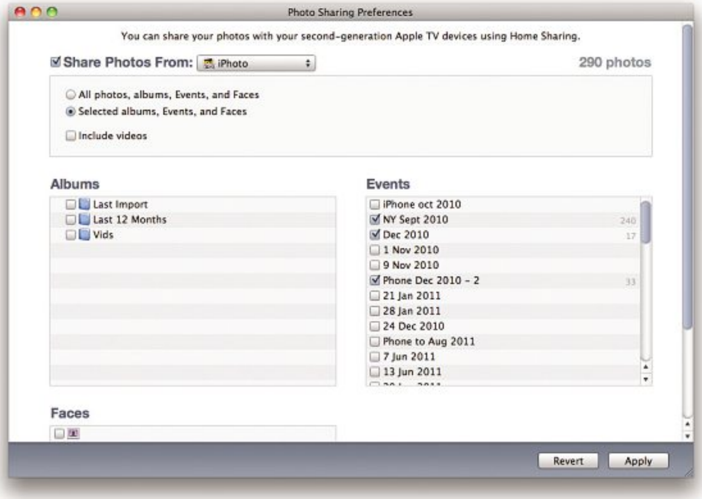


Photo Sharing Preferences

You can share your photos with your second-generation Apple TV devices using Home Sharing.

☑ Share Photos From: iPhoto — 290 photos

○ All photos, albums, Events, and Faces
● Selected albums, Events, and Faces

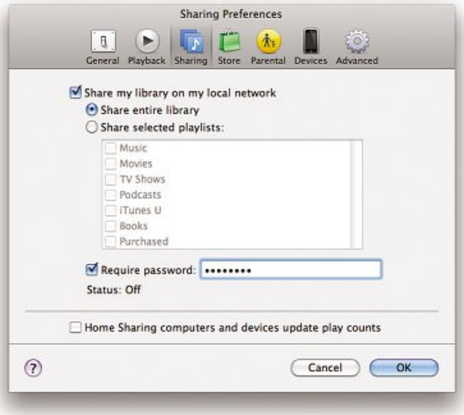
☐ Include videos

Albums
☐ Last Import
☐ Last 12 Months
☐ Vids

Events
☐ iPhone oct 2010
☑ NY Sept 2010 — 240
☑ Dec 2010 — 17
☐ 1 Nov 2010
☐ 9 Nov 2010
☑ Phone Dec 2010 – 2 — 33
☐ 21 Jan 2011
☐ 28 Jan 2011
☐ 24 Dec 2010
☐ Phone to Aug 2011
☐ 7 Jun 2011
☐ 13 Jun 2011

Faces

From iTunes you can set up photo sharing from your iPhoto library to your Apple TV.



Sharing Preferences

☑ Share my library on my local network
● Share entire library
○ Share selected playlists:
☐ Music
☐ Movies
☐ TV Shows
☐ Podcasts
☐ iTunes U
☐ Books
☐ Purchased

☑ Require password: ••••••••
Status: Off

☐ Home Sharing computers and devices update play counts

Stream your iTunes library around your house.

Select the device in *iTunes* while it's connected, go to the Summary tab and scroll to the bottom. Activate manual management of music and videos – if you're using Apple's iTunes Match service, you'll only be able to manually deal with videos because your music is delivered from the cloud.

Since iOS devices have lower storage capacities than Macs, syncing whole libraries doesn't make much sense if your music and movie collections are large. In these cases, either choose to sync specific playlists, or use manual management to keep control of how much stuff is being fired over so as not to fill up your iPad. There's also an option in *iTunes'* Summary tab to compress media prior to transfer. 'Convert higher bit rate songs' will shrink larger file sizes prior to copying, and 'Prefer standard definition videos' will transfer a lower resolution copy where available, both of which will use less space on the iPad. »

Sharing with others

When you need to share your files and folders with other people…

The internet has revolutionised the way we communicate and consume and share information with each other. The rise of social networking sites like Facebook and Twitter as well as the prevalence of fast internet connections means it's now more convenient than ever to share things electronically. At its simplest, this can mean emailing things to people. Apple's *Mail* is great with attachments, and you can drag and drop documents into a new message to attach them. In the case of pictures, there's an option at the bottom-right corner of the message window to resize them prior to sending, which works beautifully. Movies can be dropped in as attachments too, and there's even a Photo Browser window that's able to access your *iPhoto* albums and even your Facebook albums online, if you have enabled this in *iPhoto*.

Of course it's also possible to send zipped archives, *Microsoft Office* and other types of documents. *Mail* generally encodes files properly, so it's rare to have that one of your contacts find they can't open a file you've sent them. The only thing to watch out for is message sizes: movies or large pictures can easily be over 10MB in size, and most ISPs have a message size limit of between 10 and 20MB. Any bigger than this and the mail may get rejected, so split files over several mails or use a file-hosting service such as Sendspace or Dropbox. After upload you get a link to send to someone, and Sendspace has a downloadable desktop application to help you manage your transfers. Dropbox is even better since it has iOS client apps, so you can upload, download and manage files across all your devices as well as sharing them with others. It's a particularly elegant way to manage data both for yourself and for sharing across the internet with others.

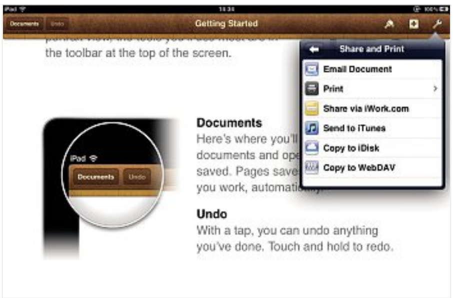
There are other ways to send links and files to people using just your Mac. *iChat* is capable of sending files between two users if you simply drag and drop a file

> "Dropbox is an elegant way to manage data both for yourself and for sharing across the net"

1 Song Selected
Done
Share Song To
facebook
YouTube
iMovie
Share Song Via
iTunes
Mail
My Song

GarageBand for iOS is able to share finished mixdowns to a range of online destinations.

» HOW TO / Share documents with iWork



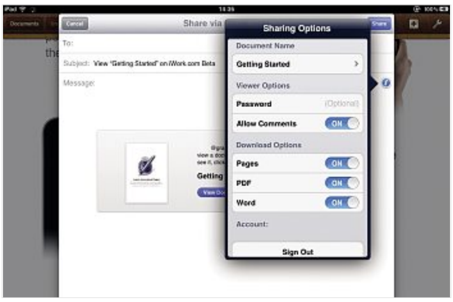
the toolbar at the top of the screen.

Documents
Here's where you'll … documents and ope… saved. Pages save… you work, automati…

Undo
With a tap, you can undo anything you've done. Touch and hold to redo.

01 Share a document

Set up *iWork* on **iwork.com**, using your Apple ID. Then on your iPad, load a document in one of the *iWork* apps like *Pages*. Click on the Settings icon then choose to Share > Share via iwork.com. You can also mail the document or share it to your iDisk or a WebDAV server.

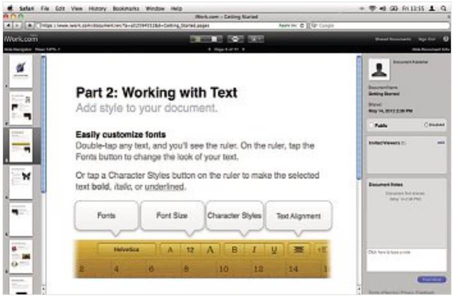


To:
Subject: View "Getting Started" on iWork.com Beta
Message:

Document Name
Getting Started
Viewer Options
Password (Optional)
Allow Comments ON
Download Options
Pages ON
PDF ON
Word ON
Account:

02 Set up the mail

Click the iwork.com option and an email appears. Enter the recipients' addresses, then click Sharing Options. Here you can password protect the document, allow comments and allow downloads in multiple formats. Come out of this menu and chick Share to send the mail.



Part 2: Working with Text
Add style to your document.

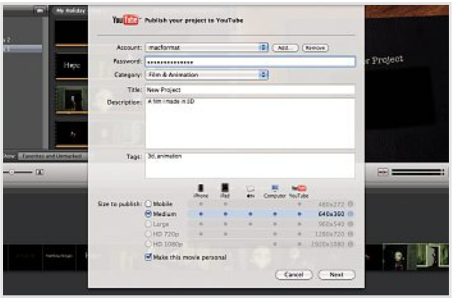
Easily customize fonts
Double-tap any text, and you'll see the ruler. On the ruler, tap the Fonts button to change the look of your text.

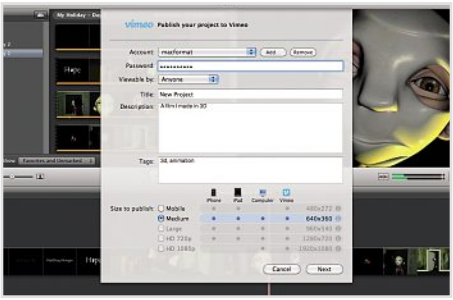
Or tap a Character Styles button on the ruler to make the selected text **bold**, *italic*, or underlined.

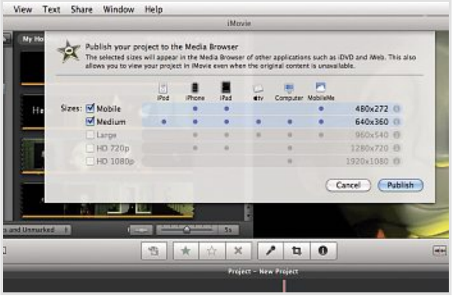
03 Visit iwork

Your recipients will get a mail with a link to view, download and edit the document. If you log in to iwork.com using your own details you'll see that it has appeared in your account. Click it to see who has been invited to view it and also when it was shared. ●

» HOW TO / Share from iMovie to the web


Publish your project to YouTube
Account: macformat
Password: •••••••••••••••
Category: Film & Animation
Title: New Project
Description: A film made in 3D
Tags: 3d, animation
Size to publish: ○ Mobile ● Medium ○ Large ○ HD 720p ○ HD 1080p
☑ Make this movie personal
Add...
Remove
iPhone
iPad
tv
Computer
YouTube
480x272
640x360
960x540
1280x720
1920x1080
Cancel
Next


Publish your project to Vimeo
Account: macformat
Password: ••••••••••
Viewable by: Anyone
Title: New Project
Description: A film I made in 3D
Tags: 3d, animation
Size to publish: ☐ Mobile ● Medium ☐ Large ☐ HD 720p ☐ HD 1080p
Add
Remove
iPhone
iPad
Computer
Vimeo
480x272
640x360
960x540
1280x720
1920x1080
Cancel
Next


Publish your project to the Media Browser
The selected sizes will appear in the Media Browser of other applications such as iDVD and iWeb. This also allows you to view your project in iMovie even when the original content is unavailable.
Sizes: ☑ Mobile ☑ Medium ☐ Large ☐ HD 720p ☐ HD 1080p
View
Text
Share
Window
Help
iMovie
iPod
iPhone
iPad
tv
Computer
MobileMe
480x272
640x360
960x540
1280x720
1920x1080
Cancel
Publish
Project – New Project

01 Share to YouTube

With your movie finished, go into *iMovie*'s Share menu and choose YouTube. Use the Account tab to sign in with your account details, then set up a category, title, description and tags. You'll see a list of sizes and be able to choose any size up to the existing frame size.

02 Publish to Vimeo

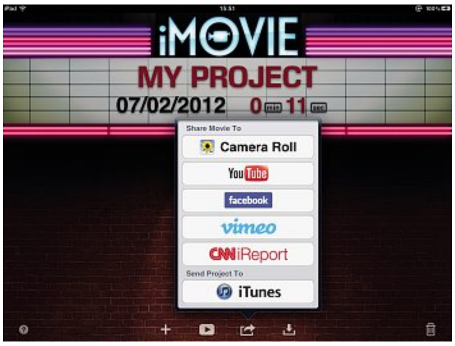
Another option in the Share menu lets you upload a video straight to Vimeo. This has the same settings as the YouTube window. When you hit Next, *iMovie* will create a compressed version of the movie based on the size preset you have chosen, and upload it.

03 Publish to Media browser

If you choose to Share your movie to the Media browser in *iMovie*, you can create versions for multiple devices, again up to the existing maximum size of the video. If you do this, it will be available to import into other *iLife* apps including *GarageBand* and *iDVD*. ●

into a conversation. Other IM clients like *Adium* can do the same. Some offer encryption, and it makes sense to zip large groups of files together to minimise upload times, either using OS X's built-in compression tools (right click and choose 'Compress…') or a third-party app like *Dropstuff*, *SimplyRAR* or *BetterZip*.

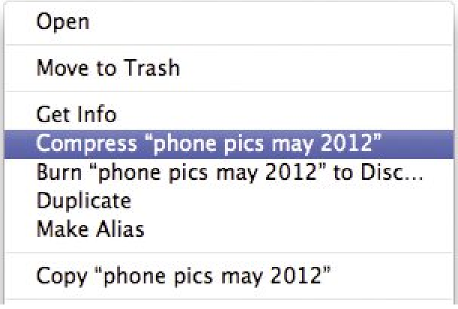
Photo sharing is one of the most popular kinds of sharing, and *iPhoto* can share your photos across your local network and also to the internet, from the Share menu. You can send pictures straight to a MobileMe, Flickr or Facebook gallery, complete with metadata and other tags, straight from *iPhoto*. If you're running OS X 10.7, you can sign in to iCloud and activate Photo Stream, which pushes all new pictures into the cloud. Your master collection is maintained on your Mac, but all pictures imported to *iPhoto* or *Aperture* will be viewable wirelessly on your iOS devices running iOS 5. Snaps you take on your iPhone or iPad will be viewable and downloadable in *iPhoto* on your Mac. However, you're the only one with access to these. To create galleries to share with others you need to use the Flickr or Facebook options in *iPhoto*. There are a number of iOS photo-sharing apps such as *Instagram*, *Camera Plus*, *Photoshop for iOS* and *iPhoto for iOS*, all of which allow you to upload photos and albums directly to sites like Flickr, Facebook, Tumblr and Twitter.


iMOVIE
MY PROJECT
07/02/2012
Share Movie To
Camera Roll
YouTube
facebook
vimeo
CNN iReport
Send Project To
iTunes

iMovie for iOS can export your finished movies to YouTube, Vimeo and a number of other sharing sites.

But it's not only photos that get shared: video sharing is huge now as well, and *iMovie* lets you compress and upload your productions directly to YouTube, Facebook and Vimeo from your Mac. Pro-video apps such as *Adobe Premiere* and Apple's *Final Cut Pro X* also have amongst their many export options the choice to send movies to these sites, with more control than you get in consumer apps. Obviously these are popular sites, which are advanced enough to handle high-definition content and process it in a reasonable time. You can share movies to these sites from iOS apps such as *iMovie* and *Avid Studio* as well, though you really need to be on a wireless connection due to the size of the file transfer involved.

> *"SoundCloud is the go-to site for sharing music, with upload support built into many iOS apps"*


Open
Move to Trash
Get Info
Compress "phone pics may 2012"
Burn "phone pics may 2012" to Disc…
Duplicate
Make Alias
Copy "phone pics may 2012"

Use OS X's built-in file compression to simplify sending.

SoundCloud is the go-to site for sharing your music tracks these days, with direct upload-support built into many iOS apps and desktop music-creation packages like *Cubase* (though not yet available with *GarageBand* or *Logic*). Of course, you can just export an audio file then upload it to SoundCloud through a browser: it just takes a couple more steps. SoundCloud is great because its audio players are supported on pretty much every platform, including iOS. It also allows the recording of audio straight into the site, from your Mac or from an iOS device.

iCloud is a great service but it is currently better for sharing your own documents across your own devices than for sharing with the world. The exception is iWork.com, currently in beta, which lets you share documents from the iOS *iWork* apps like *Pages*, *Numbers* and *Keynote* to the cloud, complete with password and accessibility options. People you grant access to can then see and open these documents, so it's good for online collaboration.

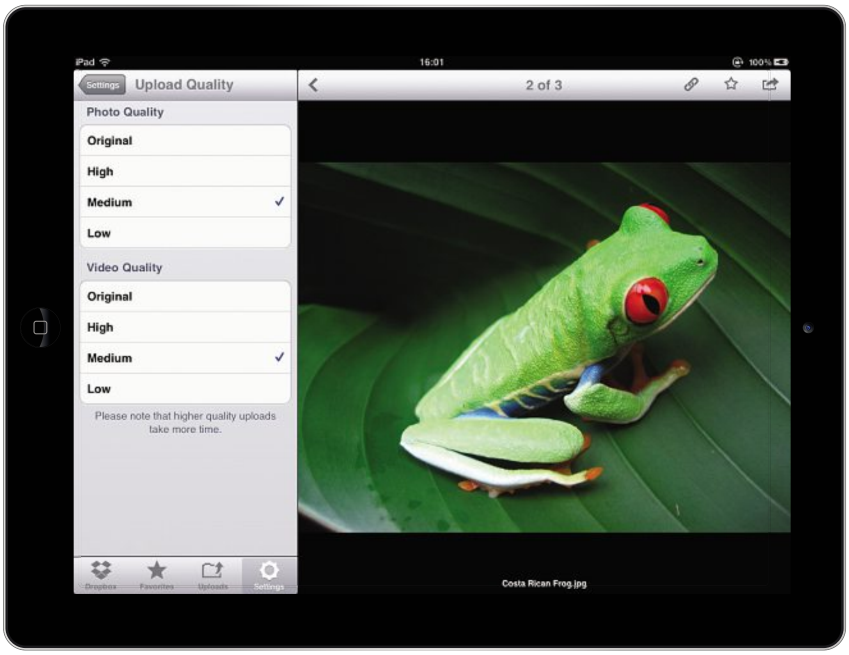
A more open-source alternative is to use Google Docs, a browser-based service that lets you create online documents and spreadsheets that others can access and edit with your permission. Dropbox is another great solution for sharing documents online, though it allows upload and download of files, not actual online creation and editing, like Google Docs. »

Sharing on the go

Even when you're on the road you can still share your stuff…

When you're away from home with a laptop, you can still access all of your Mac's sharing capabilities with a network connection. In fact you don't even need a Wi-Fi or Ethernet connection if you have an iPhone or 3G iPad. With iOS 5 and the relevant bolt-on enabled with your cellular provider, you can use the Personal Hotspot feature built in to iOS to share the cellular connection to any compatible device including a laptop. On your iPad 3G or iPhone 4 or later, go into the Settings > General > Network section and tap to turn on the Personal Hotspot feature. You're then able to create a mini wireless network over Wi-Fi and USB, and even over Bluetooth. On the device you can create a name for the network and set up a password, then it should appear as an available network on your laptop. You can also use this to share your iPhone's connection with your Wi-Fi-only iPad.

In other situations you may only have your iPad or iPhone with you, accessing either a 3G or wireless connection. In these cases you're still able to share a surprising amount of stuff from the device. At a basic level, the *Photos* app allows you to select pictures to share over email or in a message, and you can do this with videos as well. Photos, movies and other documents can be copied and pasted into emails and iMessages. As long as they're relatively small (say under 20MB) they'll send even over 3G.

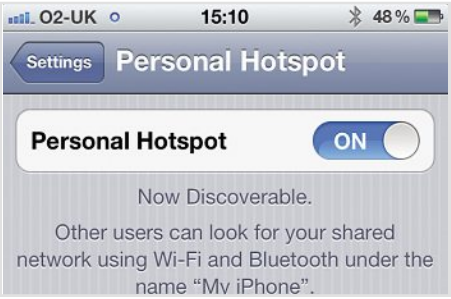

iPad
16:01
100%
Settings
Upload Quality
2 of 3
Photo Quality
Original
High
Medium ✓
Low
Video Quality
Original
High
Medium ✓
Low
Please note that higher quality uploads take more time.
Dropbox
Favorites
Uploads
Settings
Costa Rican Frog.jpg

Dropbox is a well-established file sharing service that works seamlessly across your Mac and iOS devices.

> *"You can use the Personal Hotspot feature built into iOS to share the cellular connection to any device"*

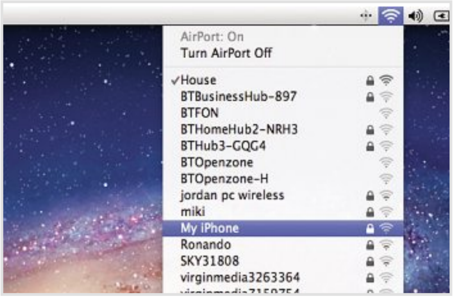
Apple doesn't allow much file management on iOS, but with the addition of a third-party app or two you can get better control over managing data. *Downloads* and *Filer* come in free 'lite' and paid-for versions, and are able to provide a basic file browser interface for managing files. They also allow file sharing with your Mac both through *iTunes* and the provision of a web

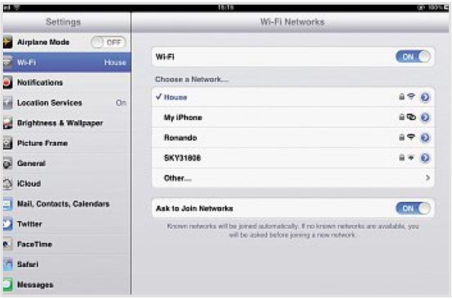
>> HOW TO / Set up a Personal Hotspot


O2-UK
15:10
48 %
Settings
Personal Hotspot
Personal Hotspot
ON

Now Discoverable.

Other users can look for your shared network using Wi-Fi and Bluetooth under the name "My iPhone".


AirPort: On
Turn AirPort Off
✓House
BTBusinessHub-897
BTFON
BTHomeHub2-NRH3
BTHub3-GQG4
BTOpenzone
BTOpenzone-H
jordan pc wireless
miki
My iPhone
Ronando
SKY31808
virginmedia3263364


Settings
Wi-Fi Networks
Airplane Mode
OFF
Wi-Fi
House
Notifications
Location Services
On
Brightness & Wallpaper
Picture Frame
General
iCloud
Mail, Contacts, Calendars
Twitter
FaceTime
Safari
Messages
Wi-Fi
ON
Choose a Network…
✓ House
My iPhone
Ronando
SKY31808
Other…
Ask to Join Networks
ON

Known networks will be joined automatically. If no known networks are available, you will be asked before joining a new network.

01 Turn it on

On your iPhone 4 or 3G-capable iPad, go to *Settings* and then the Personal Hotspot section. Tap to turn it on. This will only be available if your carrier plan includes the option to use the hotspot feature. If you don't have it, it can be added for a fee.

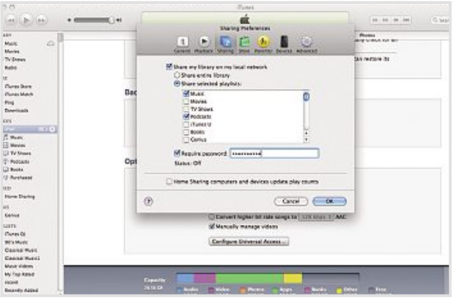
02 Connect to the network

On your laptop, click the AirPort icon and locate the network, which should bear the name of your phone or iPad. Click to join it and enter the wireless password as displayed in the setup screen and you should be sharing the cellular connection.

03 Connect an iPad

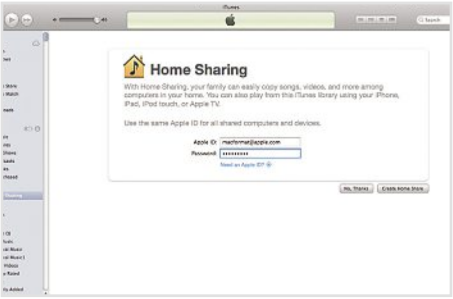
If you have a Wi-Fi-only iPad and want to share an iPhone's connection, use the same technique but connect to the wireless network using the iPad's wireless network selection screen inside Settings. Note, you might go through your data allowance quite quickly. ●

» HOW TO / Use iTunes Match



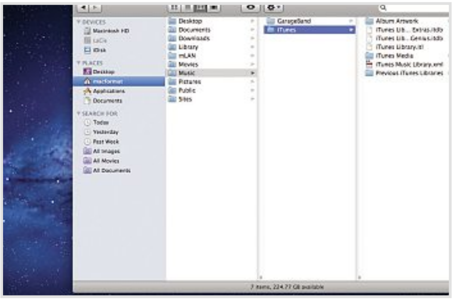
01 Set it up

In *iTunes*, make sure you're signed in with your Apple ID and subscribed to the service. Turn on iTunes Match from the Store menu. This can take a few hours, especially if you have a lot of items that need to be uploaded because they can't be matched.



02 Activate on iOS

On your iPad, go into Settings > Music and turn on iTunes Match. If you have a 3G model you'll also see the option to use a cellular connection for iTunes Match. Show All music can be turned off to only show music downloaded to the device.



03 Play music

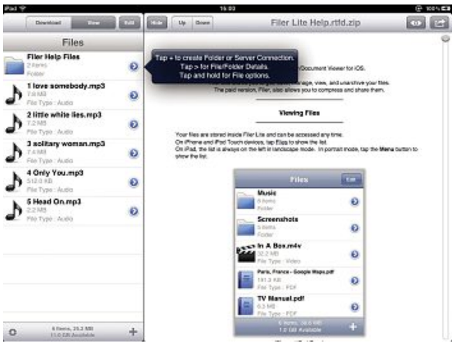
Fire up the *Music* app and you'll see your playlists and tracks available to play. The cloud icon means the track is stored in the cloud; tap to manually download tracks or playlists. Swipe to delete a track from local storage – *iTunes* on your Mac maintains the master library file. ●

sharing service, where you can access the iPad or iPhone from your Mac's browser to transfer files. They allow you to download files from websites, copy them from *Mail* attachments and manage them centrally. *Filer* allows connection to Dropbox, iDisk and WebDAV servers to upload and download files, and *Downloads* also has a very useful feature set for working with and opening all kinds of documents.

Dropbox is a more complete solution because it works across your Mac and iOS devices, and allows comprehensive web-based sharing. It also has features such as the ability to control the quality of uploaded pictures and videos, so you can choose between better quality and faster uploads. As we've mentioned, Apple's *iWork* for iOS documents ties in with iCloud and iwork.com and lets you store, edit and share documents easily. Google Docs is another great way to create, store and share documents from any mobile device, and it has a special mobile interface that works well on iOS. Other good mobile apps for sharing documents on the go include *QuickOffice Pro HD*, *Documents To Go* and *Smart Office 2*, with support for many sharing services including Box.net, iDisk and SugarSync amongst others.

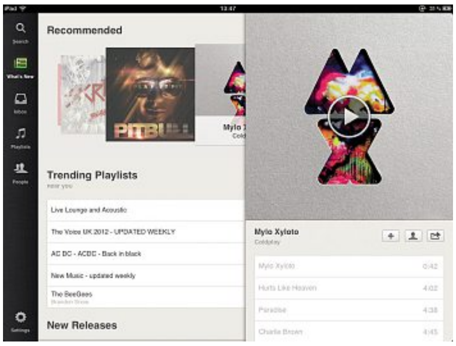
Another thing that people want to do while they're out and about is listen to their music. But music collections are so big these days that few of them would fit on an iPad or iPhone, so we have to choose what to load up. Or at least we did before iTunes Match came along. This £25-per-year service from Apple gives you access to your entire music library wirelessly wherever you are (with a few caveats). It works by analysing your music library in *iTunes* on your Mac then uploading the information to Apple's servers. It matches every song that has a copy in the iTunes Store and since it has the world's biggest digital store, most of your music will be on there. Anything that's not available can be uploaded from your hard drive, which takes a little time but only needs doing once.

> *"Dropbox is a complete sharing solution because it works across your Mac and iOS devices"*



Filer can be used to download files from the internet to your iPad, so you can work with and manage them.

On your iPad or iPhone you can turn on iTunes Match and instead of seeing the music on the device, you get access to your whole library in the cloud. Playlists are maintained and your Mac remains the master library, so any changes you make there are reflected across all your devices, including the purchase or addition of new content. So whenever you have a wireless connection you can play your music library on any of your devices, choosing from thousands of tracks. It doesn't actually stream to your iPad – it downloads a track, but these can be deleted at any time and a master copy remains in the cloud.



The Spotify app gives you access to streaming music on the move. Buy a subscription for more flexibility.

The best bit is that even if your original music tracks were low quality, the cloud versions are 256kbps, high-quality versions.

If you don't have iTunes Match you can still stream music using an alternative app like *Spotify* or *Last.fm* – the Last.fm-powered iPad client is called *On Air*. These let you set up playlists and access them over the air, though don't provide access to your music library. There is a charge for some aspects of the service like physical downloading of tracks in Spotify. There are a number of other interesting mobile sharing apps like Bump, which lets you share contact information with people nearby, Foursquare which lets you share your location with other users and also Apple's own Find My Friends app, which does the same. ●

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Connect two DVI or HDMI displays to a single Thunderbolt™ connector and expand your view.

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"Give your movies an entirely new look and feel with iMovie's vast selection of filters"

WORK CREATIVELY WITH iMOVIE VIDEO EFFECTS P50

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How to...

PHOTOS • MOVIES • MUSIC • HOME • SYSTEM

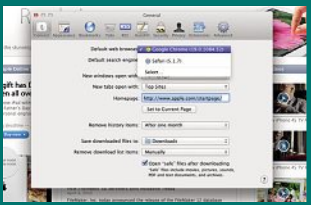
Matthew Bolton
Mac Tutor

When we were producing this issue, some sort of south-continental summer arrived, bringing with it perfect conditions for creative photography (and no small amount of personal discomfort if you hadn't had the foresight to buy shorts). Our tutorial for creating soft-focus portraits on page 46 is perfect for photos of loved ones taken in the sunlight. Meanwhile our guide to using *iMovie's* video effects on page 50 shows you how to spice up videos taken in clear light – the Heat Wave filter will work especially well!

If you end up taking rather a lot of photos (as we all have), we've two great guides for you: take charge of organising your photos with iPhoto libraries using our walkthrough on page 48; and find out how to convert whole batches of images to a new format in one go on page 70.

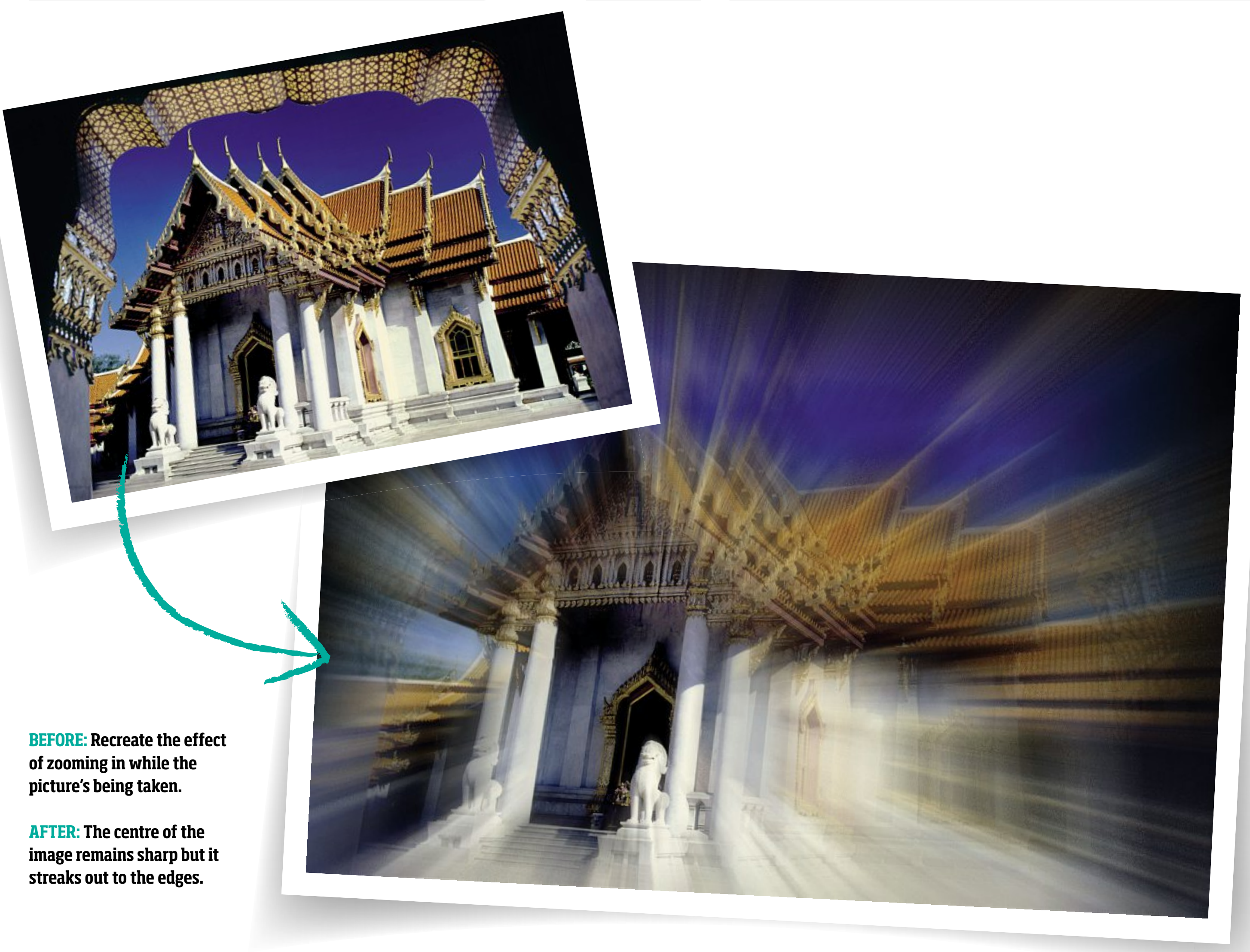
If you're ever worried about losing track of time, our *iCal* guide on page 60 will help you keep on top of your schedule. We also show you how to set up Rules in *Mail* on page 64, to keep your email organised.

As ever, email any suggestions for tutorials to **macformat@futurenet.com**.



>> DID YOU KNOW?

If you want to change your default web browser, you can do so by opening *Safari* and going to Safari > Preferences and changing it in the top drop-down menu.



BEFORE: Recreate the effect of zooming in while the picture's being taken.

AFTER: The centre of the image remains sharp but it streaks out to the edges.

Create a zoom burst effect

Create a dynamic zoom effect with the Radial Blur filter in Elements

>> KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
Photoshop or Elements 9 or 10

The arrival of zoom lenses in photography didn't just bring practical benefits. Snappers soon discovered they could create some striking visual effects by zooming the lens while the picture was being taken. It's a tricky technique to master. First, you need to set a shutter speed long enough to give you time to move the zoom mechanism, and then you have to learn to hold the camera as steady as possible while you're doing it.

But the results are worth it. The centre of the image is sharp, but you get a dramatic streaking effect radiating out to the edges of the picture from where the zoom setting's changed during the exposure. You need a camera with a manual zoom ring rather than a motor-driven zoom – but you can also recreate the effect digitally using *Photoshop* or *Elements*.

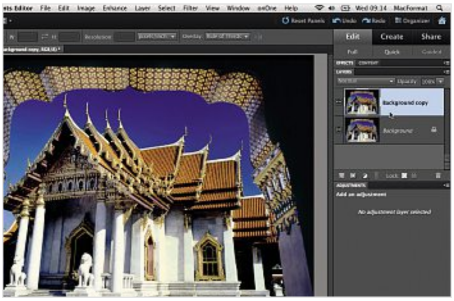
This doesn't require quite the same levels of skill or perseverance as doing it manually, and it gives you more control over the final result, because you can choose exactly the type and amount of blur to apply. This can be done using layer masks and the Brush tool to carefully blend the zoom effect with the underlying image. You can create layer masks in both *Photoshop* and *Elements* from version 9 onwards. If you're using an earlier version of *Elements*, you could use the Eraser tool, using the same brush and opacity settings as those in our walkthrough.

> *"You need a camera with a manual zoom ring – but you can also recreate the effect digitally in Photoshop"*

The other advantage of doing it digitally is that you can choose where you want the zoom effect to originate from. If you create a zoom burst effect with the camera, the zoom always starts from the centre of the picture, but in *Photoshop* you can choose a different point to start the 'zoom'. That's what we've done here – the doorway of the temple makes a really strong focal point.

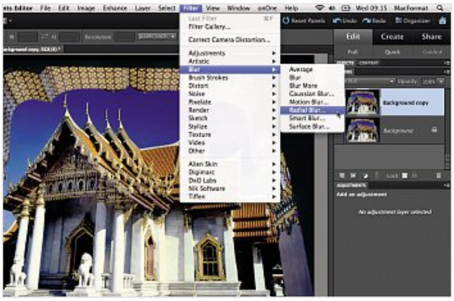
Rod Lawton

HOW TO / Work with the Radial Blur filter



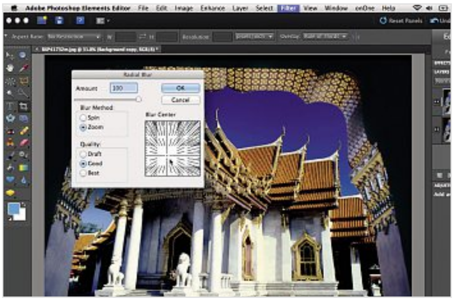
01 Duplicate the layer

The first thing to do is duplicate the image layer. Drag its thumbnail in the **Layers** palette onto the **New layer** button at the bottom. We'll create the zoom burst effect on this new layer and blend it with the original layer below to control the degree of blur.



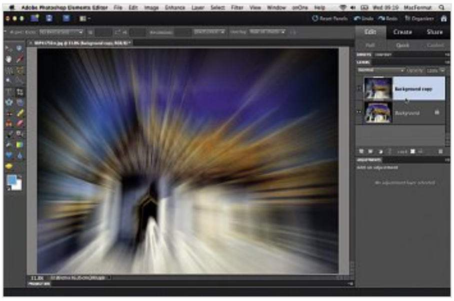
02 Radial Blur filter

Photoshop and *Elements* have an array of blur filters: the one we need is the Filter > Blur > Radial Blur option. This actually comes in two types – **Spin** and **Zoom**. **Spin** creates a rotational effect around a centre point – to make a wheel look like it's spinning, for example.



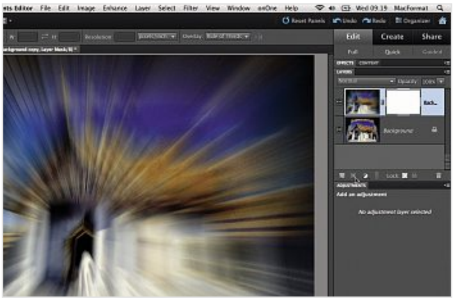
03 Zoom blur settings

What we want is the **Zoom** option. This creates a blur effect that radiates outwards. We're going for the maximum **Amount** value of 100, and will leave the **Quality** option set to **Good**. The only tricky part is choosing where to click to position the centre of the zoom effect.



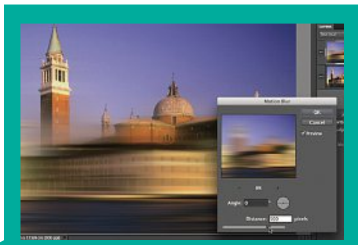
04 The zoom effect

This is what the picture looks like with the zoom burst effect applied. There's a bit too much blur in the centre, where if you'd done it manually by zooming the lens, you'd expect to see a bit more detail. So we've created the effect on a new layer for us to tone down the blur.



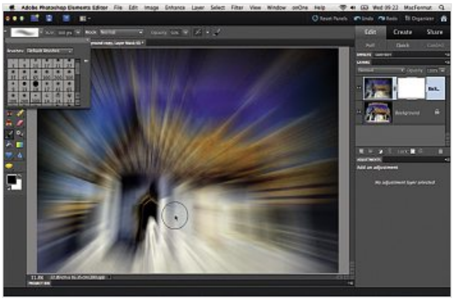
05 Create a layer mask

To create a mask, click the **Add layer mask** button at the bottom of the **Layers** palette. Initially, the mask will be solid white, but when you paint on it in black or shades of grey, the areas appear transparent, so that the layer beneath shows through.



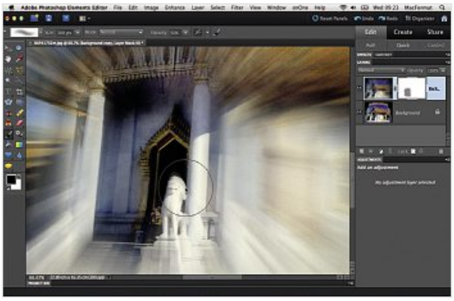
QUICK TIP

Try the **Motion Blur** filter. This creates an adjustable horizontal blur that can be used to create a kind of time-lapse effect as if traffic, pedestrians or water are moving in front of the camera. Again, use a duplicate layer and a layer mask to blend in the blur more effectively.



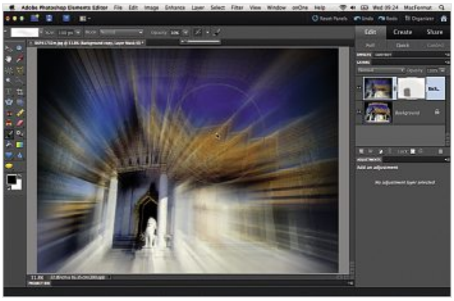
06 Brush settings

With the mask selected (just click on its thumbnail), select the **Brush** tool, choose a big, soft brush from the drop-down palette on the options bar, and set its opacity to 50%. This will let you build up the masking effect slowly rather than it being all or nothing.



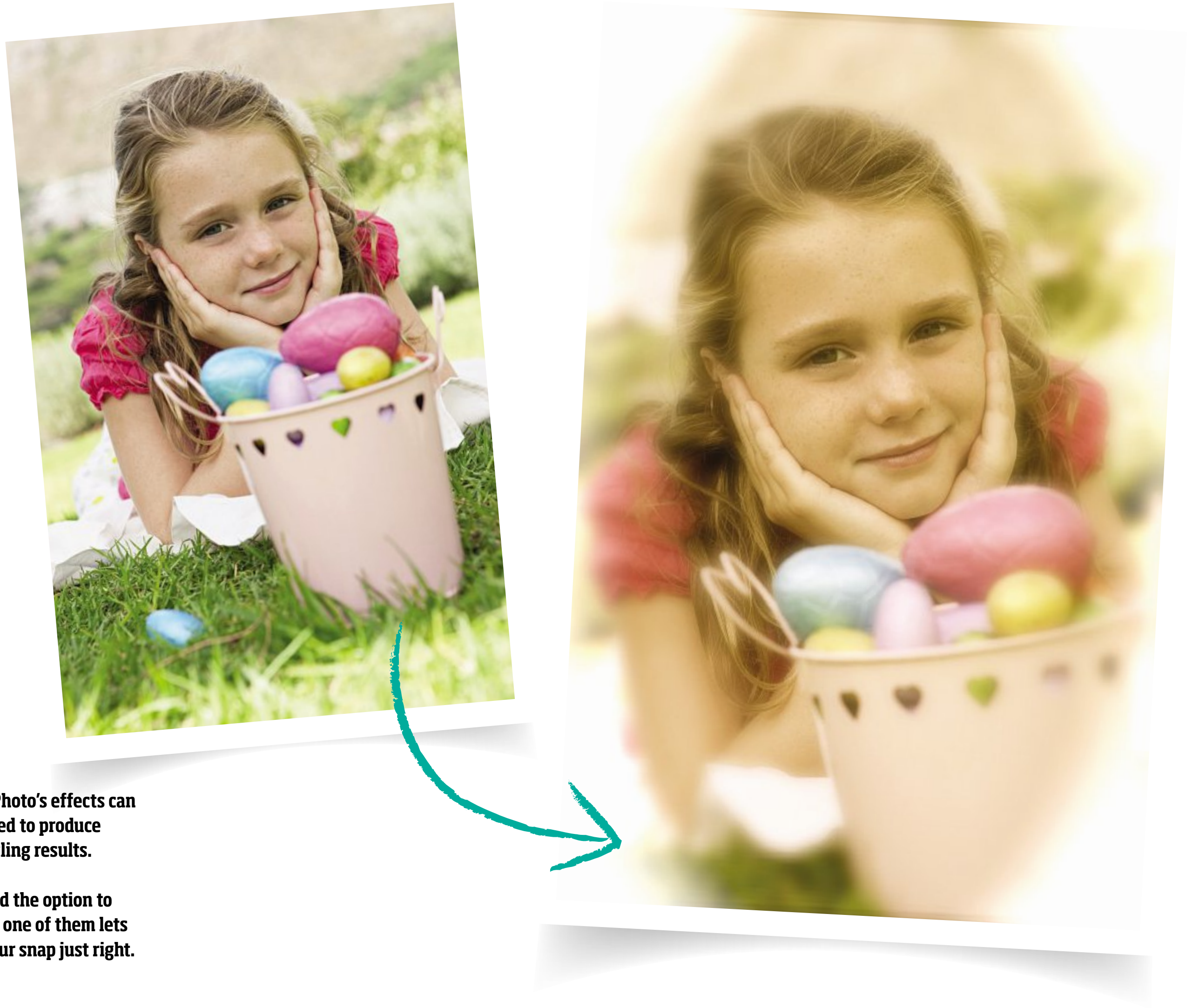
07 Sharpen the centre

All we're doing now is brushing over the centre of the zoom effect, masking those areas of the blurred top layer so that the sharper detail in the layer below shows through. Don't go too far, though – you don't want to get rid of the zoom blur effect completely.



08 Finishing touches

Now take a final look at the picture. Are the edges just a little too blurred? If so, with the layer mask still selected, reduce the brush opacity to 10% or less, and start brushing over the areas that appear too blurred. This subtly reveals detail without spoiling the effect. ●



BEFORE: iPhoto's effects can be combined to produce some startling results.

AFTER: And the option to revert any one of them lets you get your snap just right.

Create a soft-focus portrait

Make a photograph seem dreamlike with just a few clicks in iPhoto

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
10 minutes

WHAT YOU'LL NEED
iPhoto '11

Apple's *iPhoto* is a terrific tool for organising your photos and fixing common exposure, colour or composition problems, but you can also use it to add some great effects to your pictures. This walkthrough shows how to create a soft-focus look for an everyday snapshot – and it's all done without the need for any complicated sliders, dialogs or manual adjustments.

Instead, it uses *iPhoto*'s **Effects**. You can see how the effect looks straightaway and if you don't like the result, you can click on the **None** button on the bottom right-hand corner to revert. This becomes even more useful later on when you start combining effects, and this is where they really start to show their worth. Unlike the special effects filters in other programs, which you apply one at a time, these can be applied in different combinations, and can open up lots more possibilities.

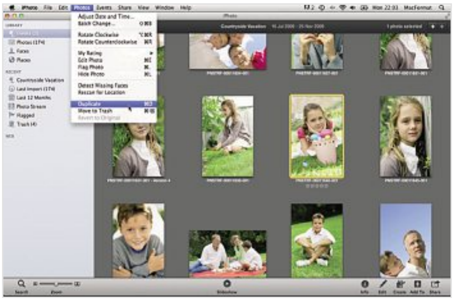
The portrait example shown here uses three different effects at the same time. The **Antique** effect is used to give a warmer tone to the picture, which gives skin tones a more flattering appearance, while the **Edge Blur** effect adds the soft-focus look. The other key thing is these effects come in different strengths – to make the effect stronger, you just keep clicking its button. It's also a good opportunity to take a look at a couple of everyday essentials in *iPhoto* – namely, how to crop your photos to get rid of unwanted details around the edges, and how to zoom in to check details.

> *"iPhoto's effects can be applied in different combinations, and this opens up lots more possibilities"*

The **Crop** tool is especially interesting because you can use it to cut out bits of the picture you don't want, but also to make it fit specific proportions. This becomes important when you print your pictures or if you're intending to use them in on-screen slideshows.

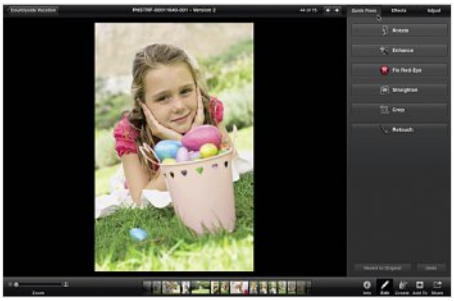
Rod Lawton

HOW TO / Create a soft-focus effect



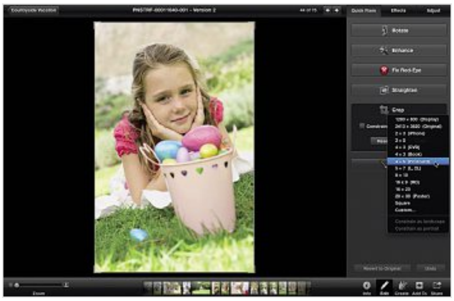
01 Create a duplicate

You're going to be making so many changes that you're effectively creating a new image, so it's likely you'll still want to be able to see the original. Click on the thumbnail to select it, and then use the Photos > Duplicate command to create a new version.



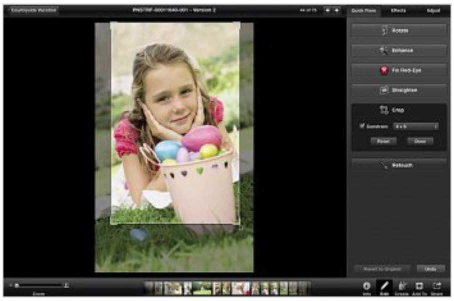
02 Editing tools

With the duplicate photo selected, click the **Edit** button at the bottom-right of the *iPhoto* window. It's easier to edit photos in full-screen mode – you can activate this using the button in the top right-hand corner of the screen. Click the **Quick Fixes** panel on the right.



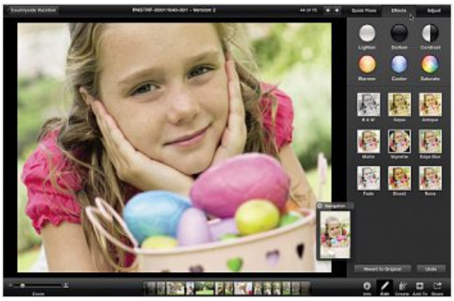
03 Crop settings

If you need to crop out unwanted parts of the picture, now's the time to do it. The **Crop** button is near the bottom of the **Quick Fixes** panel. You'll also see a drop-down menu listing common picture proportions – handy if you want to print a photo to fit a photo frame.



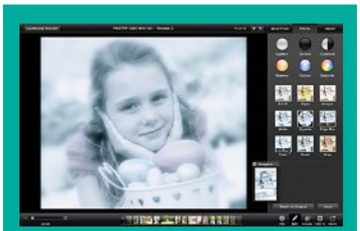
04 Crop your picture

If you set specific proportions with this menu, the **Crop** rectangle keeps them when you resize it by dragging the corner handles. Drag from the centre to change its position. We're cropping off a lot of unwanted detail at the bottom of this picture.



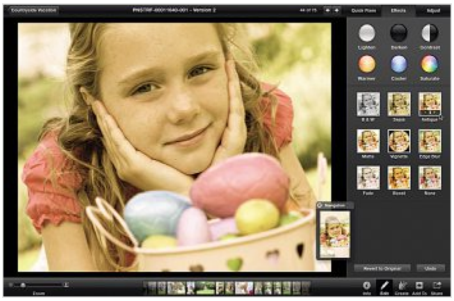
05 Zoom in

To get a closer look at the effect your adjustments are having on the picture, use the zoom slider in the bottom left-hand corner. Zoom in and *iPhoto* displays a **Navigation** panel with a box showing the currently visible area. Drag this box around to see different areas.



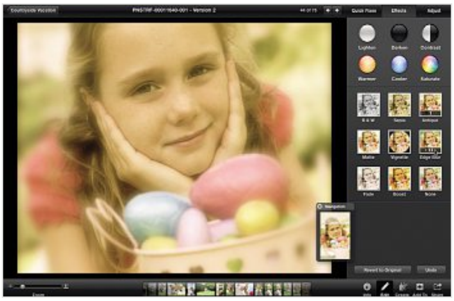
QUICK TIP

Try using the **Fade** effect instead of **Antique**. It adds a cooler tone to your pictures, simulating the look of an old colour print. Keep clicking to increase the strength and you start to get a great blue-toned black and white look, while the **Edge Blur** filter gives it a soft and dreamy look.



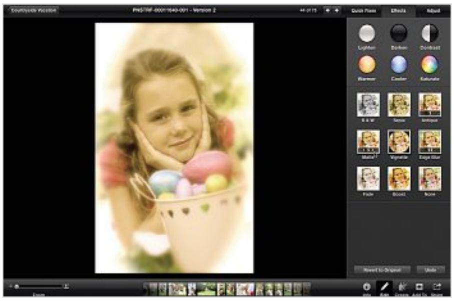
06 Apply Antique effect

To create the warmer tones, click the **Antique** effect. This is similar to using the **Warmer** button at the top, or adjusting the **White balance** slider in the **Adjust** panel. The **Antique** effect, though, is slightly more subtle: one click is enough.



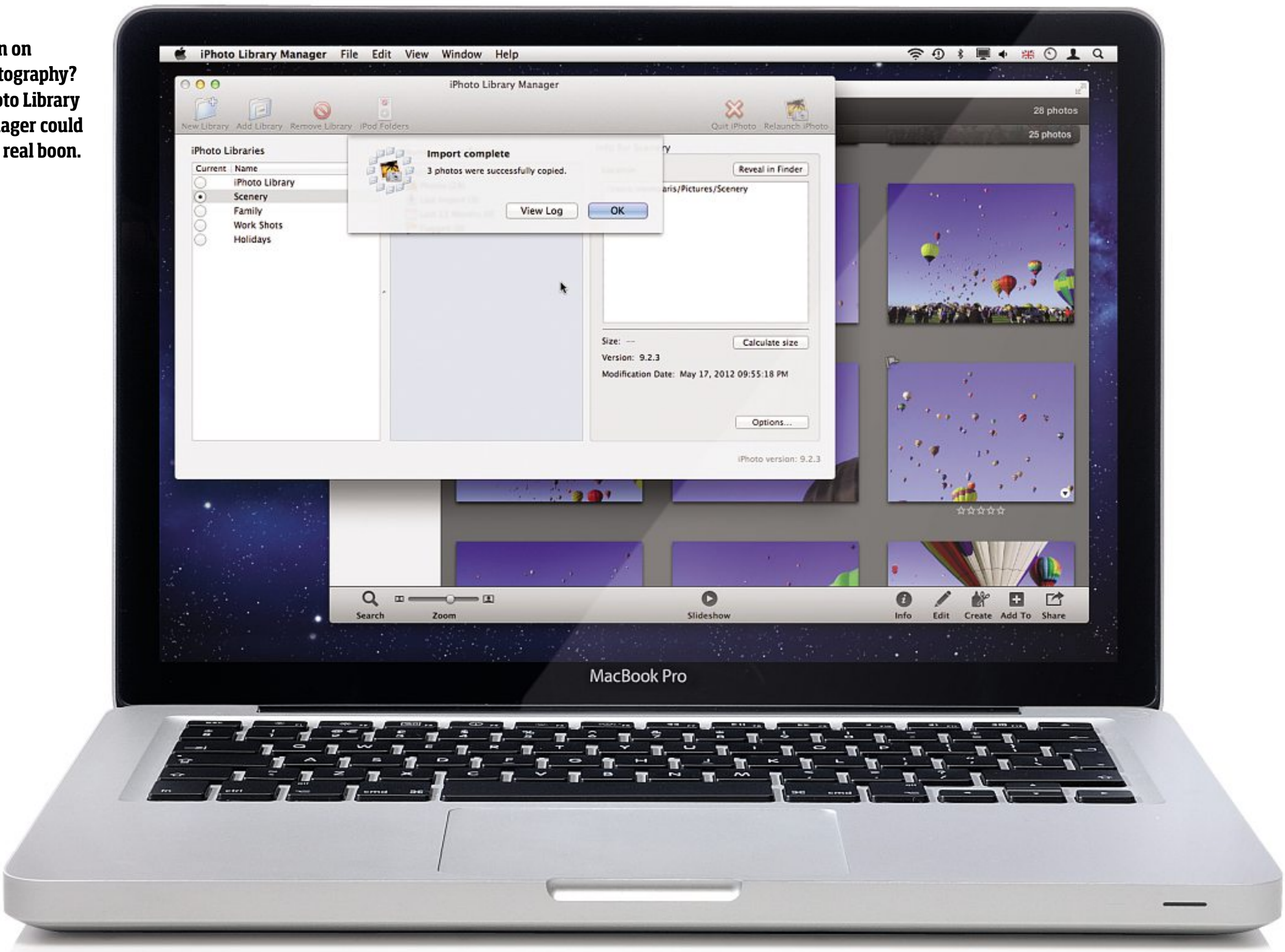
07 Add Edge Blur

iPhoto doesn't have a soft-focus effect, but the **Edge Blur** effect does just as well. You need to keep clicking to build up its strength. First it blurs the edges, but by the time you've clicked up to 11, it gives a perfect soft-focus in the centre of the picture too.



08 Finish with Matte

Add a finishing touch with the **Matte** effect. It's like a vignette, in that it fades the edges of the picture out to a white background. This frames the girl's face and hides any background clutter. Note: the effect is none to subtle, and one click is usually enough. ●


iPhoto Library Manager
File
Edit
View
Window
Help
New Library
Add Library
Remove Library
iPod Folders
Quit iPhoto
Relaunch iPhoto
iPhoto Libraries
Current
Name
iPhoto Library
Scenery
Family
Work Shots
Holidays
View Log
OK
Reveal in Finder
Calculate size
Options...
28 photos
25 photos
Search
Zoom
Slideshow
Info
Edit
Create
Add To
Share
MacBook Pro

Import complete

3 photos were successfully copied.

Size: --

Version: 9.2.3

Modification Date: May 17, 2012 09:55:18 PM

iPhoto version: 9.2.3

Keen on photography? iPhoto Library Manager could be a real boon.

Use iPhoto Library Manager

Turn your iPhoto library into a highly flexible series of image databases

>> KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
iPhoto '11 version 9.2.3 or later, an extensive photo library

Apple's *iLife* is an amazing suite of applications designed to bring out the creative in you. You can make a movie with *iMovie*, perform a song with *GarageBand* and keep track of your photos with *iPhoto*. But while making music and home videos is time consuming, practically everyone who owns a Mac takes photos.

This is why *iPhoto* is the most popular *iLife* program of the three and is always one of the Top Paid apps from the Mac App Store… this means there's a lot of you out there who are struggling with software, which could be a lot more versatile.

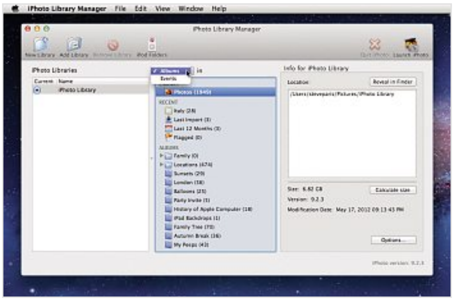
The main problem with *iPhoto* is that all your images are stored in a single location, the iPhoto Library file, in your account's Pictures folder. The obvious problem lies when sorting out your personal photos from your work photos, for instance. Yes, you can create different events and albums to organise yourself, but you can't check all your photos without seeing a mish-mash of completely unrelated images.

Wouldn't it be better to have the ability to create multiple libraries, so you can get organised? To be fair, *iPhoto* does let you do this, but the process is a little convoluted and it's incredibly difficult to move photos from one library to the other, especially if you want to preserve all the metadata you've added to them.

> *"Manage multiple iPhoto libraries, transfer photos, even choose which library to import shots to"*

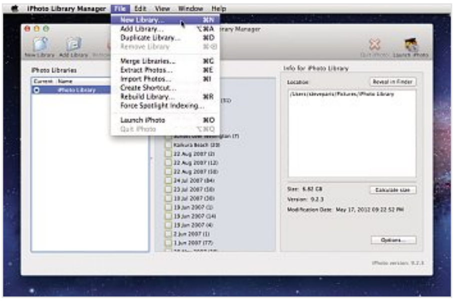
This is why Fat Cat Software came up with a clever utility called *iPhoto Library Manager*. For only $20 (£13), you can manage multiple *iPhoto* libraries, transfer photos between them, even choose which library to import shots to, all from a convenient and clear interface. Check out this tutorial and if you like what you see, you can try the app out for free by visiting **www.fatcatsoftware.com** (note that some features aren't available until you purchase the app).
Steve Paris

HOW TO / Manage multiple iPhoto libraries



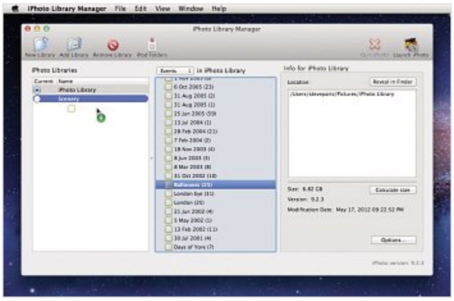
01 Your current library

Launch *iPhoto Library Manager* – your current library is on the left with all your Albums in the middle. To see your Events, click on the **Albums In** pop-up menu and select **Events**. The right-hand column displays general information about the currently selected library.



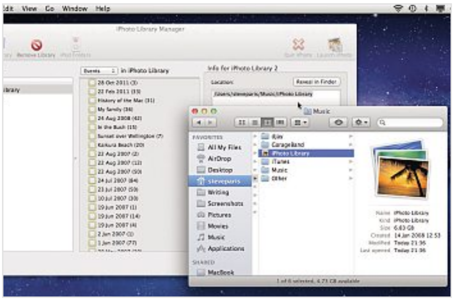
02 Make a new library

Go to **File > New Library**, click the **New Library** button in the toolbar (top left) or use the ⌘+N keyboard shortcut. Do so and a new library appears in the column to the left. By default, it's stored in the **Pictures** folder, but you can save it anywhere, even on another drive.



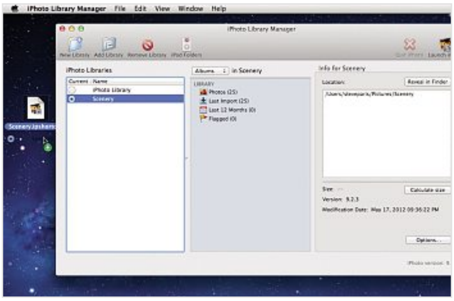
03 Transferring photos

Click your original library's button in the first column, choose a folder or an event, and drag it onto the new library. The app launches *iPhoto*. Locate the files in question, copy them, quit *iPhoto*, relaunch it with the new library selected, and paste those photos into it.



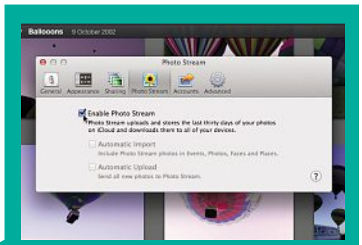
04 Moving libraries

iPhoto doesn't like you moving its Library file, but *iPhoto Library Manager* has no problem. Quit *iPhoto* (the button is to the right of the toolbar), then locate one of your libraries in the *Finder* and move it to another folder. The app will now point to its new location.



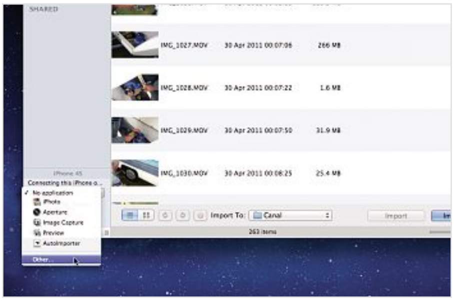
05 Make a shortcut

When working with multiple libraries, you may not want to launch *iPhoto Library Manager* each time prior to choosing the right library to use. To speed this up, drag a library from the first column onto the Desktop. Just double-click this shortcut to launch that library.



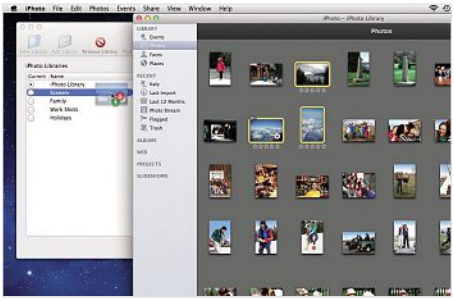
QUICK TIP

The Photo Stream feature can only connect to one library at a time, but the shots in your stream are stored outside of the regular iPhoto libraries so if you decide to turn Photo Stream on in another library, you'll find all your streamed pictures are there, waiting for you.



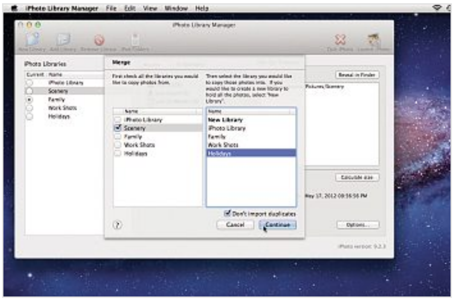
06 Importing photos

When you connect your camera, *iPhoto* will open up the last selected library. To change this behaviour, connect your camera and launch the *Image Capture* app. Click on the pop-up menu, bottom left of the interface, choose **Other** and select **iPhoto Library Manager**.



07 Transferring photos

If the photos you wish to transfer aren't in a particular album or event, you can move them manually. Launch *iPhoto*, select the image or images you'd like to transfer, and drag them to the *iPhoto Library Manager* interface, over the library's name you'd like to copy them to.



08 Merging libraries

To merge your libraries together, go to File > Merge Libraries. Select all the libraries you'd like to merge from the left column, then click on the one you'd like to copy the photos to from the right column. Tick the **Don't import duplicates** box and click **Continue**. ●

Work with video effects

Give your movies an entirely new look and feel with iMovie filters

KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
25 minutes

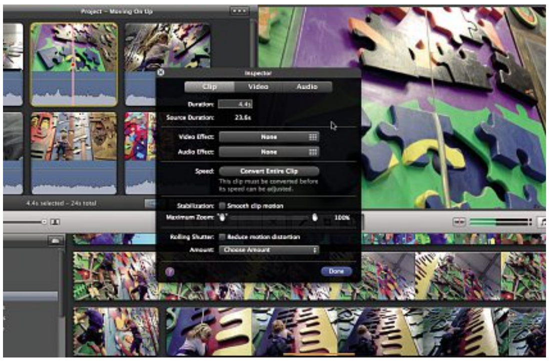
WHAT YOU'LL NEED
iMovie '11 version 9.0.4 or later, a project in progress and/or clips imported into an Event, a basic grasp of the interface

More often than not, when you work on a project, be it a home movie or a short film, you'll add clips and slowly build your film. But you may not think of altering the colours and style of your work, relying on the natural lighting conditions you were presented with on the day.

But adding filters to your visuals can help set the mood just as strongly as applying a musical score. Combine the two together and you can influence your viewers, so they feel how you want them to feel – and isn't that the whole point of filmmaking: to give those who watch your work an emotional journey? Without it, chances are they'll engage less with your film.

But just because you can apply effects, doesn't mean you should. Use them only when you feel such a visual change would enhance your story. If you just add a filter for the sake of it, you run the risk of degrading your film. But if you use the **Dream** filter for flashback sequences, for instance, it will make it easier to discern which sections are in the past and which are current.

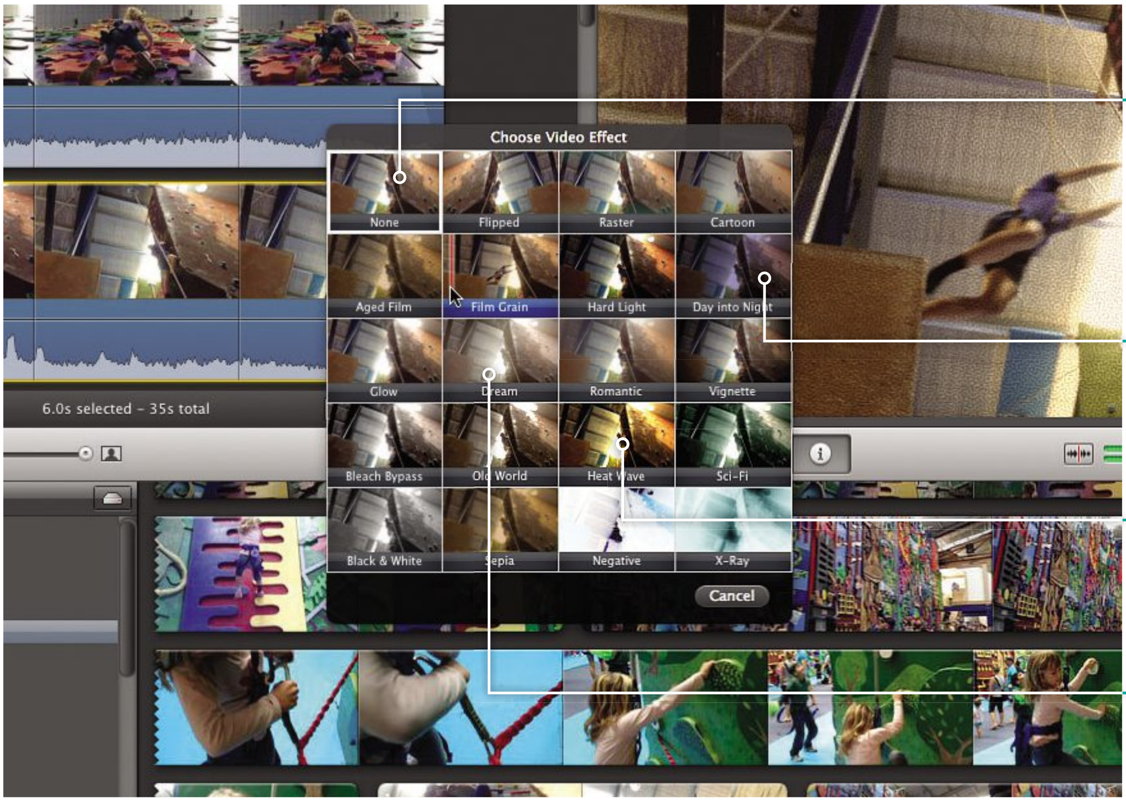
Steve Paris


Inspector
Duration: 4.4s
Source Duration: 23.6s
Video Effect: None
Audio Effect: None
Speed: Convert Entire Clip
This clip must be converted before its speed can be adjusted.
Stabilization: ☐ Smooth clip motion
Maximum Zoom: 100%
Rolling Shutter: ☐ Reduce motion distortion
Amount: Choose Amount

01 Revealing the Inspector

Start a new project or open up an existing one. In the **Projects** section, double-click on a clip you'd like to alter, to reveal the **Inspector** window. This window has three tabs at the top labelled **Clip**, **Video** and **Audio**. The pre-selected section (here, we've used **Clip**) is actually the one you need. See that the **Video Effect** has a large button currently set to **None**. Click on it.

QUICK LOOK / Previewing video effects in iMovie

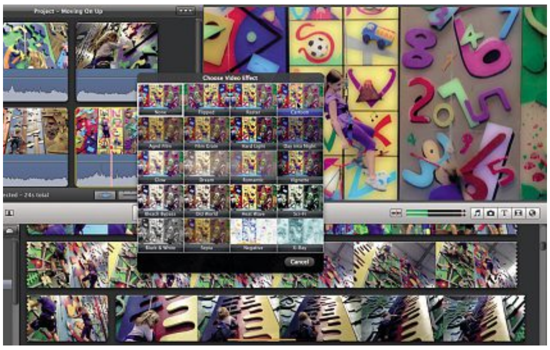


Aged Film
Make your clip look like it was shot years ago using vintage cameras: this is the filter for you.

Day Into Night
Film companies used to shoot night scenes like this: shoot them in the day and apply a filter.

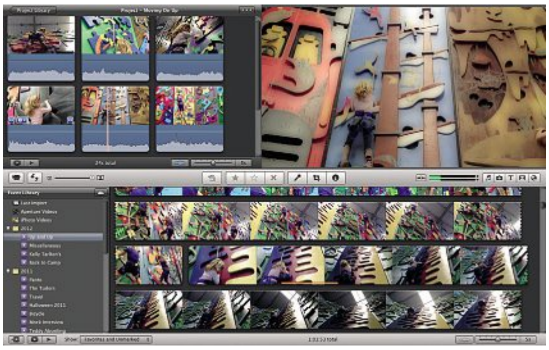
Heat Wave
Shots not 'hot' enough? This filter will bring out the intensity of a summer's day.

Dream
Flashbacks are best served with this filter, to make them look like a distant memory.



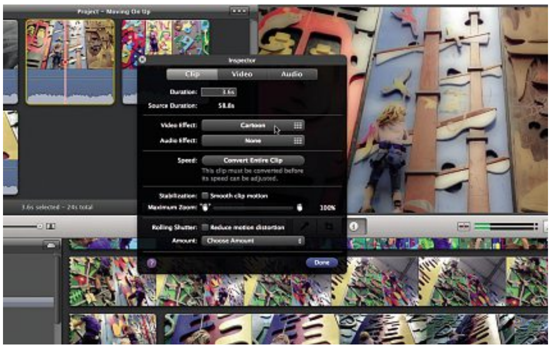
02 Previewing filters

Clicking on it flips the **Inspector** around to reveal 19 filters to apply to your footage. Move your cursor over one of the small thumbnails to see a preview of the effect in the main viewer. This helps you decide which filter will work best for that particular shot, as you can experiment with different ones in seconds.



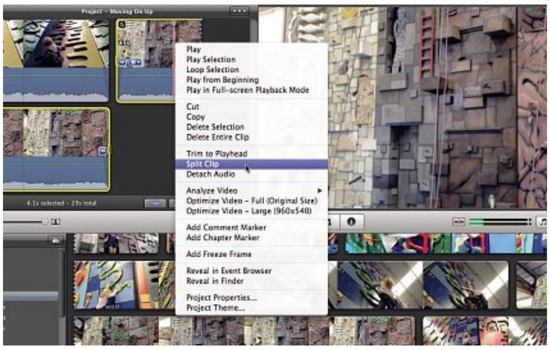
03 Instant playback

Click a filter to apply it instantly to your clip. The process also flips the **Inspector** window back to its original side. You can then play your project back with the filter applied. There's no need to render the effect: *iMovie* shows you all the changes in real time. Alter other clips with different filters. You'll be able to play them instantly.


Inspector
Clip
Video
Audio
Duration:
Source Duration:
Video Effect:
Cartoon
Audio Effect:
None
Speed:
Convert Entire Clip
Stabilization:
Smooth clip motion
Maximum Zoom:
Rolling Shutter:
Reduce motion distortion
Amount:
Choose Amount
Done

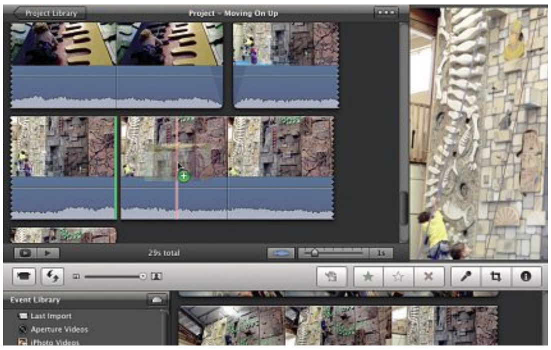
04 One at a time

Open up the **Inspector** once more. Notice that the **Video Effect** section bears your filter's name. Click on it and choose another, to replace the current filter with the new one. You can't apply multiple filters to clips unless you export modified clips and then re-import them, but that's time-consuming. Instead, stick to one filter per clip.


Play
Play Selection
Loop Selection
Play from Beginning
Play in Full-screen Playback Mode
Cut
Copy
Delete Selection
Delete Entire Clip
Trim to Playhead
Split Clip
Detach Audio
Analyze Video
Optimize Video – Full (Original Size)
Optimize Video – Large (960x540)
Add Comment Marker
Add Chapter Marker
Add Freeze Frame
Reveal in Event Browser
Reveal in Finder
Project Properties...
Project Theme...

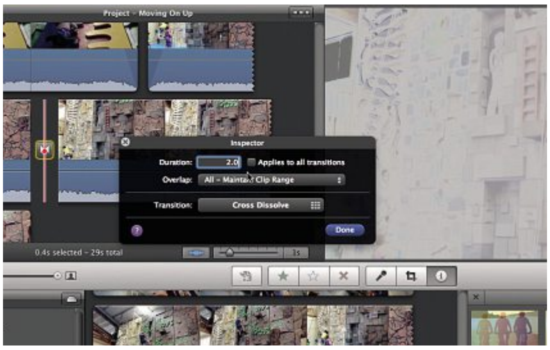
05 Gradual filters

You cannot tweak the effect or modify any parameters. It's the full effect, or nothing at all. You can, however, apply the filter slowly over time. Choose a clip you'd like to apply an effect to and add it to your project. Mouse over it until you find a place where you'd like the effect to start. ctrl-click there and choose **Split Clip**.



06 Add a transition

Reveal the **Transitions** section by going to Window > Transitions or by using the ⌘+4 keyboard shortcut. Select the most basic one: **Cross Dissolve**. Drag it from the **Transitions** section onto your project. As you do, notice a thick green line. When that line appears between the two parts of the clip, you can cut, releasing the mouse button.


Inspector
Duration: 2.0
Applies to all transitions
Overlap: All – Maintain Clip Range
Transition: Cross Dissolve
Done

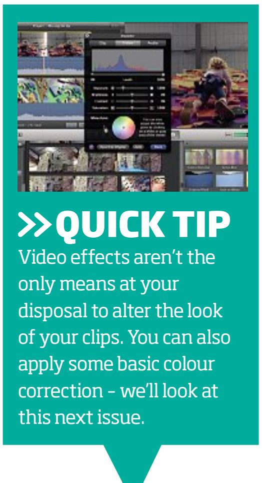
07 Change Over Time

Add your filter to the second part of your clip and play back the sequence. You can alter the speed by altering the transition's duration: double-click it in the **Project** to bring up its **Inspector** window. Change the duration, but make sure **Applies to all transitions** is unticked so as not to alter other transitions in the video. ●

»EXPERT TIP

Adding the same effect to multiple clips

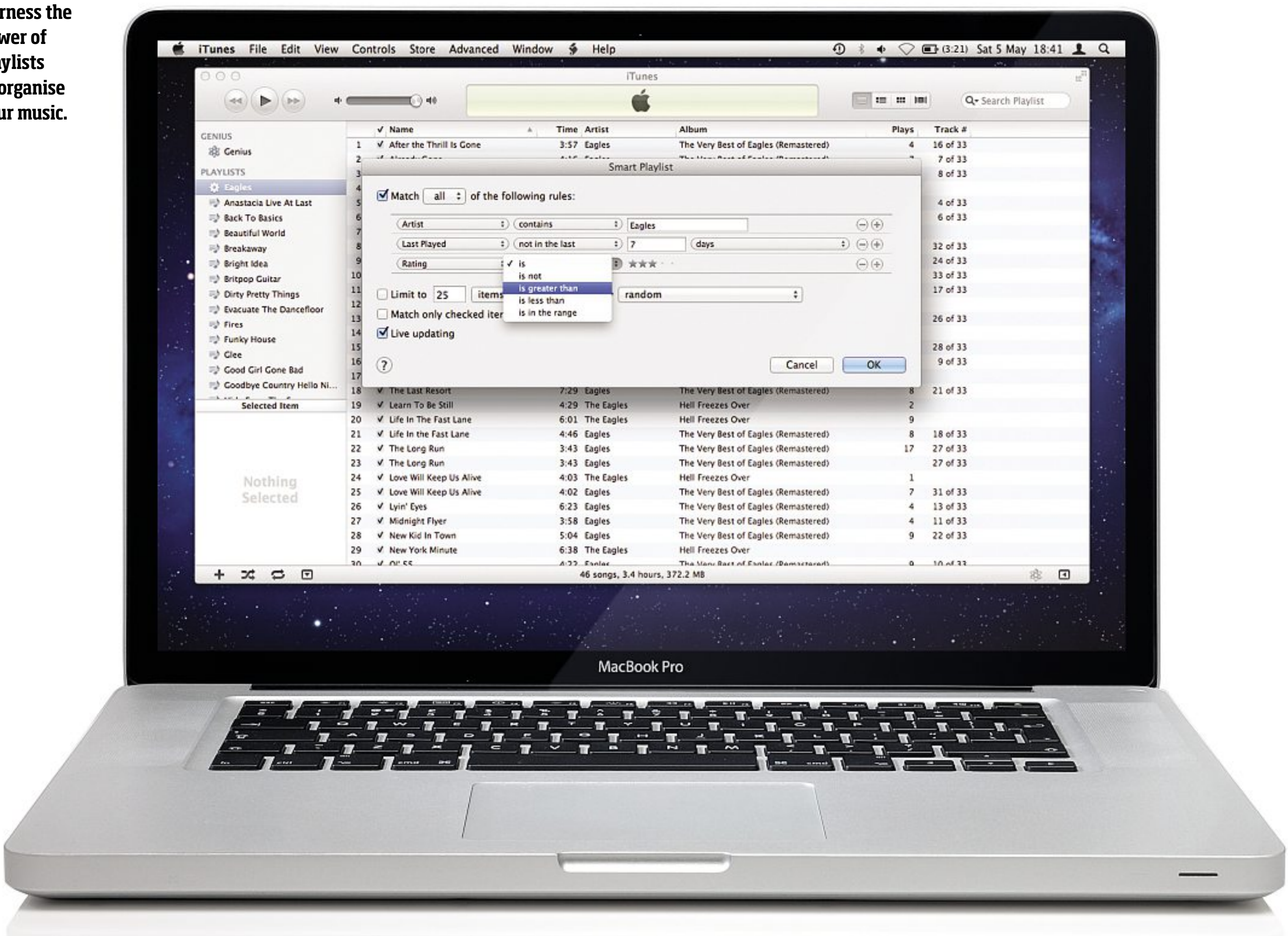
If you want to add an effect over multiple clips, you'll find the process that adds the same filter to those clips quite tedious. Thankfully there's a way to speed up the process: alter a clip then copy it. This copies not only the clip itself, but any changes you've applied to it. You can then specify which portion of the copied clip to paste onto another. Select a different clip then go to Edit > Paste Adjustments > Video Effect (or use the ⌥+⌘+L shortcut). Or, add the same effect to multiple clips at the same time: click on a clip in your project to select it, then ⌘-click to select others. Alternatively, if the clips are in a row, ⇧-click on the last one instead to select all the clips in-between. Paste the effect using the above shortcut and you're done.



»QUICK TIP

Video effects aren't the only means at your disposal to alter the look of your clips. You can also apply some basic colour correction – we'll look at this next issue.

Harness the power of playlists to organise your music.


Smart Playlist

☑ Match all of the following rules:

Artist contains Eagles

Last Played not in the last 7 days

Rating is ★★★

☐ Limit to 25 items selected by random

☐ Match only checked items

☑ Live updating

iTunes File Edit View Controls Store Advanced Window Help
Sat 5 May 18:41
iTunes
Search Playlist
GENIUS
Genius
PLAYLISTS
Eagles
Anastacia Live At Last
Back To Basics
Beautiful World
Breakaway
Bright Idea
Britpop Guitar
Dirty Pretty Things
Evacuate The Dancefloor
Fires
Funky House
Glee
Good Girl Gone Bad
Goodbye Country Hello Ni...
Selected Item
Nothing Selected
Name
Time
Artist
Album
Plays
Track #
is
is not
is greater than
is less than
is in the range
Cancel
OK
46 songs, 3.4 hours, 372.2 MB
MacBook Pro

Master playlists in iTunes

Learn how to keep your audio collection organised and easier to enjoy

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
iTunes, some music

The more music you collect in *iTunes*, the more you'll need a good way of organising it all. Otherwise, you'll be constantly skipping through songs to get to the tracks you want. The way to keep things in order is with playlists, of which there are two kinds: normal and smart.

Normal ones are simple lists of tracks that you manage manually, adding and removing things as you please. Smart playlists, on the other hand, are automatically filled with tracks that match with a criteria you set up. Using smart playlists has a great advantage: if you download new music by a certain artist or in a certain genre, you can automatically have it added to the relevant playlists – there's no need to drag the files across manually. But, before we show you how to set up and manage your playlists, here's a very quick lesson on how playlists work in *iTunes*…

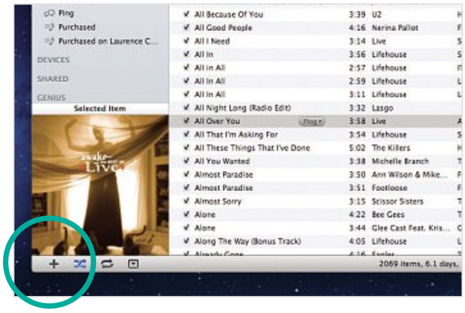
All your audio is stored in the library: these are your master copies. When you add tracks to playlists, you're essentially adding aliases (a reference to the master copy), not the master itself. This is important to know: for example, when you delete a song from a playlist, or even an entire playlist, the songs will remain in your *iTunes* library. But delete a song from your library, and it will also disappear from any playlists.

"You can sync playlists to your iPhone, iPod or iPad to enjoy your carefully crafted selections on the go"

The playlists you create needn't remain in *iTunes*, either. You can sync them to your iPhone, iPod or iPad to take your carefully crafted selections on the go with you, or export them for safe keeping. To do this, click the playlist in the left bar, then choose File > Library > Export Playlist…, pick XML from the Format drop-down, then click Save. To import playlists, choose File > Library > Import Playlist.

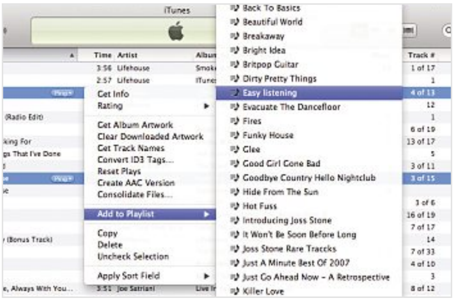
Let's now look at how to create and manage both types of playlist.
Laurence Cable

HOW TO / Create and manage playlists in iTunes



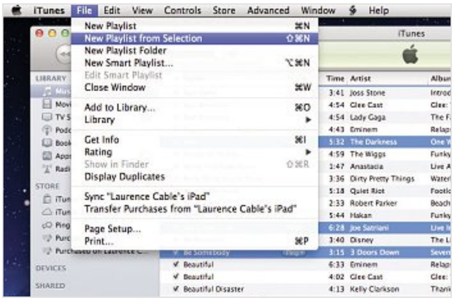
01 Create a playlist

The simplest way to create a normal playlist is to click **Music** at the top of *iTunes'* left column, then click the + in the bottom-left corner of the window. A new 'untitled playlist' will appear under the **Playlists** section of the left column. Give it a name and press ↵.



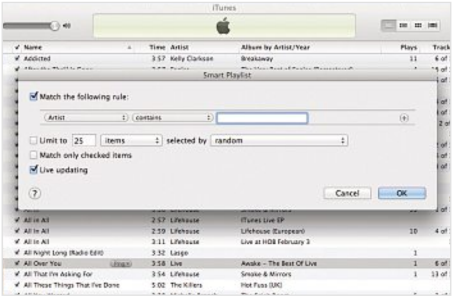
02 Add some tracks

Click **Library** again, and click a song you'd like to add to your new playlist. Hold down ⌘ to select multiple tracks. You can then either drag-and-drop them onto the playlist in the left column, or right-click and pick your playlist from the **Add to Playlist** sub-menu.



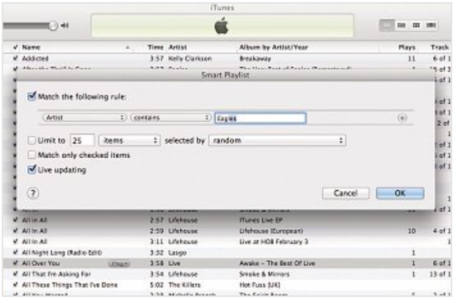
03 Playlist from selection

You can also select a number of tracks from your library or any other playlist and directly create a new playlist with those tracks in it. Hold ⌘ and click the tracks you want, then choose File > New Playlist from **Selection**. Type a name and press ↵.



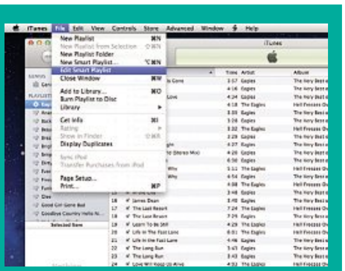
04 Your first smart playlist

Now to create an auto-updating playlist for tracks by a given artist. Click **Library** in the left column, go to **File** and choose **New Smart Playlist…**. Leave **Match the following rule** and **Live updating** ticked. Set the first drop-down to **Artist** and the second to **Contains**.



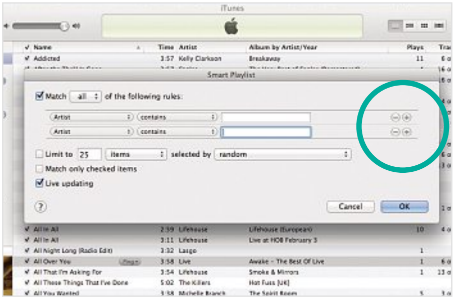
05 Try it out

Click the text field next to **Contains** and start to type your artist's name. *iTunes* will auto-complete: continue typing if it doesn't guess right first time. Click **OK** and your new list will appear at the top of the **Playlists** section in *iTunes'* left column, with a cog icon.



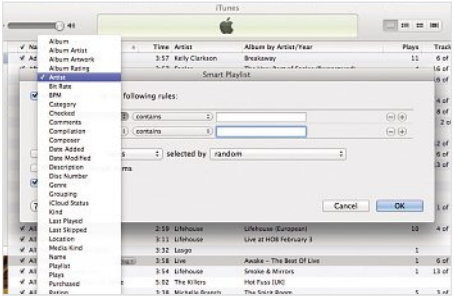
QUICK TIP

To edit a smart playlist, click its name in the left column, then go to File > Edit Smart Playlist. This will bring up the familiar rules window where you can tweak the criteria. You can limit the number of songs it contains, or its maximum size.



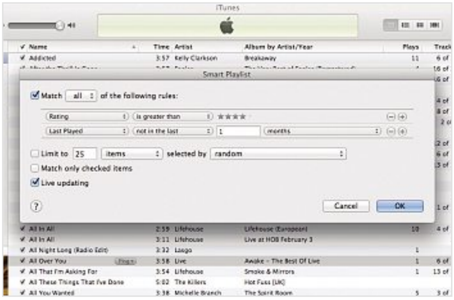
06 More options

Now that you've created a simple smart playlist, let's look at more sophisticated options. Go to **File** > **New Smart Playlist…** again. Notice how there's a little + button at the right-hand end: this enables you to create multiple rules. Click it now for a new drop-down next to **Match**.



07 One or all?

This drop-down enables you to choose whether all or just one of the rules needs to apply, which gives you a lot of flexibility. Click the leftmost drop-down to see your options. We'll create a list of all four- or five-star rated songs we haven't listened to for over a month.



08 Your first rule

Set your first rule to: 'Rating' 'is greater than' then click the fourth star. Add another rule and set it to read 'Last played' 'not in the last' '1' 'months'. Click **OK**. This example shows the kinds of clever things you can do with Smart Playlists; try out some of your own! ●

Share, listen and rave about all kinds of audio with SoundCloud.

SoundCloud File Edit Playback Sound Window Help
Explore tracks on SoundCloud – Create, record and share your sounds for free
http://soundcloud.com/tracks?order=latest
Explore Tra
Hot Latest
Share Your Sounds
DASHBOARD
Incoming
Exclusive
YOU (CRAIG GRANNELL)
Sounds
Likes
PLAYLISTS
Worm is Green
New Playlist
RECENT SEARCHES
Worm Is Green
worm is green
Title
User
Around The Fire
Uploaded by Worm Is Green 1 year ago
Like
Buy Track
Worm Is Green
Following
02.17 / 04.40
MacBook Air

Discover and share sounds

Use the OS X SoundCloud app to find great audio to share with your friends

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
OS X 10.6.8+, the SoundCloud app, a web connection, ears

There are plenty of ways to share audio online, but one place stands out as a service for the rest of us and not just professionals. SoundCloud was launched in 2008 by a sound designer and artist, with the aim of enabling musicians to share sounds and recordings with one another.

Since then, the site has evolved into a platform for sharing everything from quickfire audio recordings through to full songs and podcasts. Co-creator Alex Ljung has likened it to the audio equivalent of Flickr – a platform for cooperation, inspiration and social sharing, rather than the more commercially oriented *iTunes*.

The SoundCloud website offers a way to follow people and listen to audio, but it's not a particularly focussed experience. This is why in our tutorial we introduce you to SoundCloud through the OS X desktop app. As shown in our walkthrough, you get to understand the basics of SoundCloud: you can find your friends from Facebook, follow famous musicians and podcasts, search for and listen to myriad audio recordings, and build lists of favourites. It's also possible to record your own sounds live and upload them, should the mood strike.

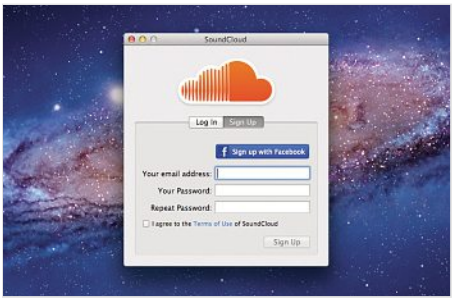
> *"The site has evolved from sharing quickfire audio recordings into offering full songs and podcasts"*

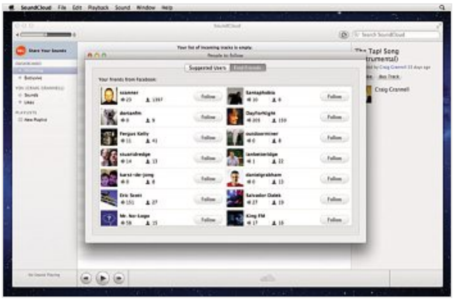
Once you're familiar with the app and get into the service, it's worth exploring the website, which provides many more options and opportunities for development and experimentation. However, even if you subsequently end up regularly using the website to share audio, the OS X app is still worth having installed, because it remains great for basic playback.

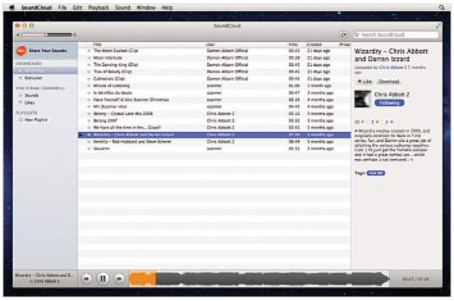
Like many social networks, SoundCloud is free to use, although paid accounts also exist, which provide more hosting space and distribution options. For this tutorial, a free account will do.

Craig Grannell

HOW TO / Get to grips with SoundCloud







01 Log in or sign up

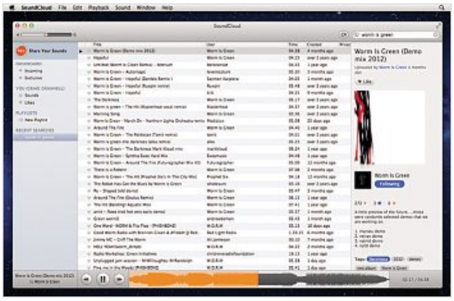
On first launching the *SoundCloud* app, you'll be asked to log in or sign up. In either case, you can use an email address and password and/or connect using a Facebook account; the latter option will make it easier to find friends later.

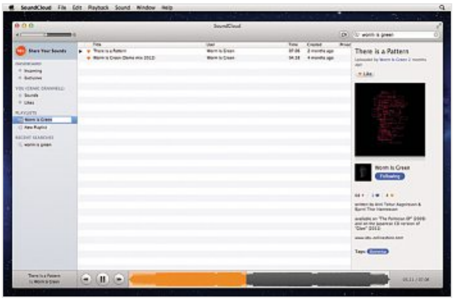
02 Find people

If you're new to the service, select **Incoming**. You'll see a 'people' link; click this (or use ⌘ + 2) to open the **People to follow** window. The number next to a waveform icon shows how many sounds that person is sharing. Click **Follow** buttons to follow people.

03 Listen to audio

Click the refresh button in SoundCloud's toolbar and the **Incoming** list will reload, listing sounds from people you follow. Double-click any entry to start playing it. At the foot of the window are playback controls and the sound's waveform; click within to jump to any part.



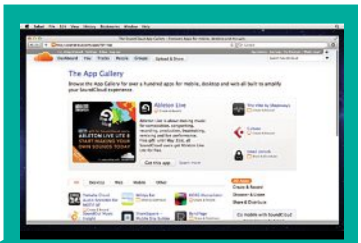


04 Search SoundCloud

Although you can find people as shown in Step 2, the results are quite general. For more focussed searches, use the search field at the top-right, or click tags in the right-hand sidebar, to find more sounds. Recent searches are stored in the left-hand sidebar, for easy access.

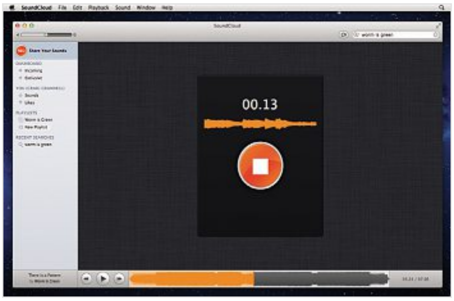
05 Create playlists

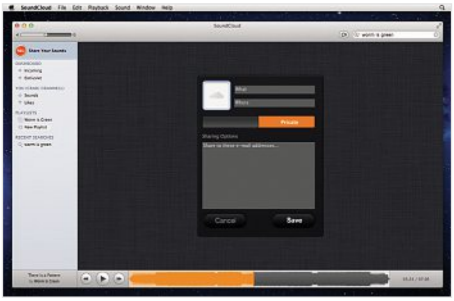
There are two ways to create lists of sounds you like. First, 'Like' any sound by clicking the (right) sidebar button, and this adds it to your 'Likes' list; or, drag items to a playlist in the left-hand sidebar. A playlist can be renamed by double-clicking it and typing a new name.

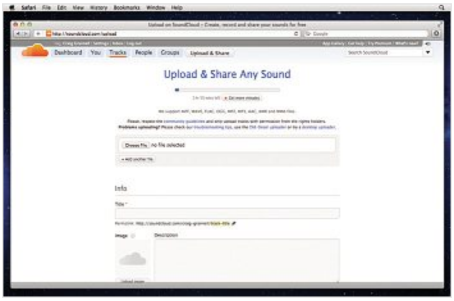


QUICK TIP

If you get really into SoundCloud, it's worth exploring the App Gallery, which provides all sorts of useful add-ons. For example, our sister magazine *Tap!* recently used DIY Music to complete a reader challenge on recording, uploading and selling a song, using only an iPad.







06 Record a sound

Although you can't upload existing audio files with SoundCloud for OS X, you can record something live and share it on the service. To start, select **Share Your Sounds**, and click **Rec**. A timer and waveform will be shown. Click **Stop** when done.

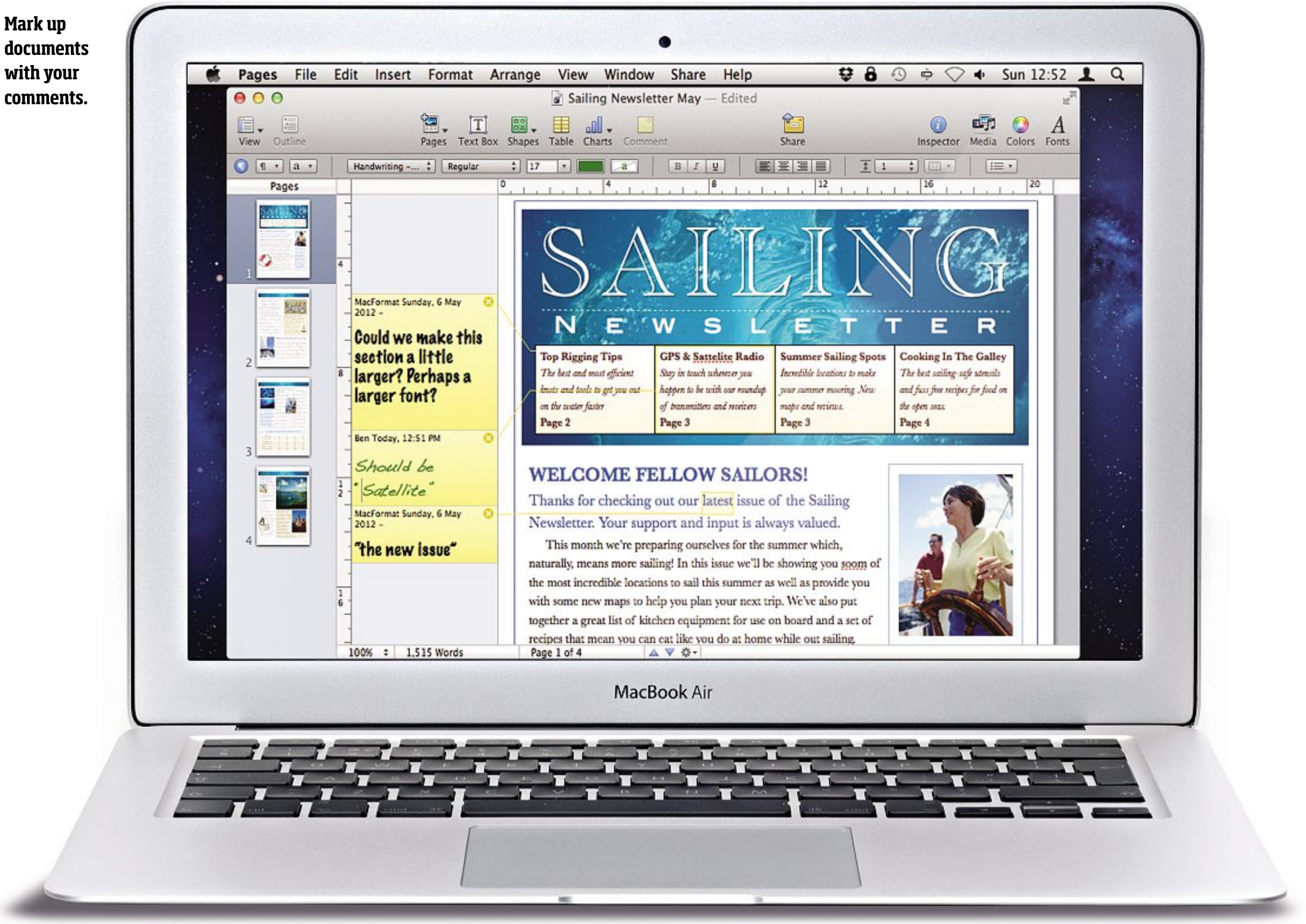
07 Upload your recording

Preview your recording by pressing play. To keep it, click **Save**, add some details (an image, its title), and define whether it's private (in which case, you add email addresses to share it with) or public. If you've signed in with Facebook, this will provide a share checkbox.

08 Use the website

For more advanced tasks, sign into **soundcloud.com**. Here, you can manage your Dashboard, and upload and share files. (Various formats are supported, including MP3 and AIFF.) With the free account, you get two hours of storage, although you can pay for more. ●

Mark up documents with your comments.


Pages File Edit Insert Format Arrange View Window Share Help
Sun 12:52
Sailing Newsletter May — Edited
View Outline Pages Text Box Shapes Table Charts Comment Share Inspector Media Colors Fonts
Handwriting -... Regular 17
Pages
1
2
3
4
100%
1,515 Words
Page 1 of 4
MacBook Air

MacFormat Sunday, 6 May 2012 -

Could we make this section a little larger? Perhaps a larger font?

Ben Today, 12:51 PM

Should be "Satellite"

MacFormat Sunday, 6 May 2012 -

"the new issue"

SAILING NEWSLETTER

Top Rigging Tips	GPS & Sattelite Radio	Summer Sailing Spots	Cooking In The Galley
The best and most efficient knots and tools to get you out on the water faster	Stay in touch wherever you happen to be with our roundup of transmitters and receivers	Incredible locations to make your summer mooring. New maps and reviews.	The best sailing-safe utensils and fuss free recipes for food on the open seas.
Page 2	Page 3	Page 3	Page 4

WELCOME FELLOW SAILORS!

Thanks for checking out our latest issue of the Sailing Newsletter. Your support and input is always valued.

This month we're preparing ourselves for the summer which, naturally, means more sailing! In this issue we'll be showing you soom of the most incredible locations to sail this summer as well as provide you with some new maps to help you plan your next trip. We've also put together a great list of kitchen equipment for use on board and a set of recipes that mean you can eat like you do at home while out sailing.

Make comments on documents

Collaborate on Pages documents by adding comments for others to review

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
20 minutes

WHAT YOU'LL NEED
Pages '09

With so many different templates available in *Pages* there are a wide range of projects you can work on. You can create newsletters, design posters and even share photos and stories with friends and family.

Sometimes, if you're creating one of those document types, you'll be working with a friend or colleague and editing the same document. Rather than note down your comments and required changes in an email or over the phone, *Pages* offers a **Comments** feature that allows you to add sticky notes to the side of the document with your notes included. Each comment can be pointed toward a specific section of the document you are working on, be it a word, picture or an entire section of text and images. You can also add the date and time you made each comment, which means you can be sure you're always editing the correct version.

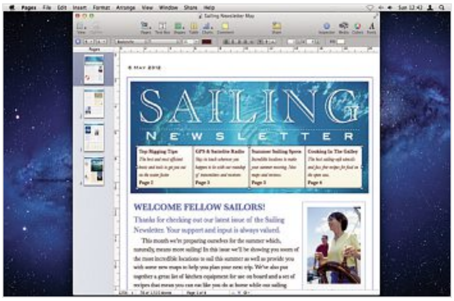
Once you have made your comments you will be able to send the document to another *Pages* user, who will be able to view the comments you have made and add their own to the document. The name of the user who made the comment is listed above each note, so you can quickly see who it is from. You can also change the font and font size of the text in your comments to differentiate them.

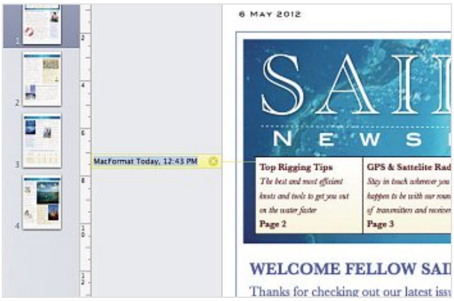
> *"Each comment can be pointed toward a specific section of the document you are working on"*

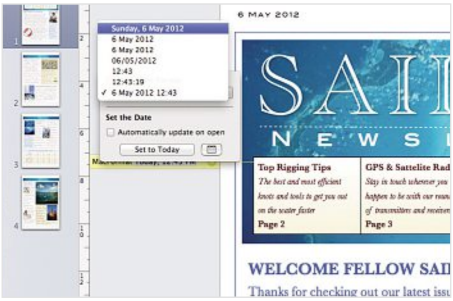
In this tutorial, we'll show you how to add comments to a *Pages* document and how to adjust the date and time as well as the font size and style. We'll also show you how you can select an area of the document or a passage of text to comment on. As part of this guide we will be using the example of a newsletter, but the **Comments** feature works on all *Pages* documents including text-based projects as well as page layout documents.

Ben Harvell

HOW TO / Add comments to a Pages document




MacFormat Today, 12:43 PM



01 Open your document

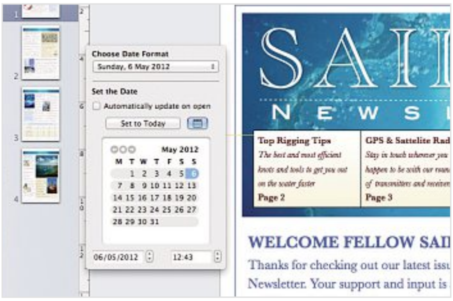
Open a document in *Pages*. Review the document and look for sections you would like to comment on or suggest changes to. You can comment on any section of the document including images, text, headings and any other element that can be selected.

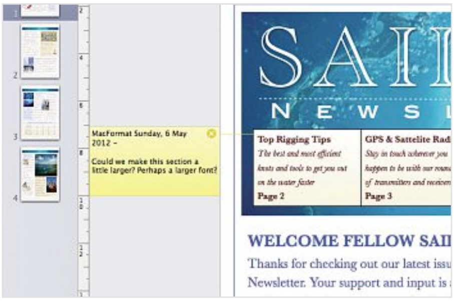
02 Add a comment

Locate the first item in the document that you want to comment on and click on it to select it. Now click **Comment** at the top of the screen. The comments pane will appear and a new comment will be added to it with a line running to the selected section.

03 Set the date format

Double-click on the area of the comment that includes the time and date to show the time and date pop-up menu. By default the comment will include the date and time using a combination of words and numbers; you can select a new style from the **Date Format** menu.



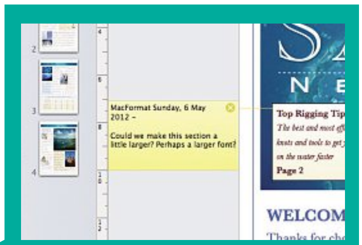

MacFormat Sunday, 6 May 2012 -
Could we make this section a little larger? Perhaps a larger font?

04 Set the date

Click on the calendar button to show the calendar interface and select the date manually. Alternatively, you can check the **Automatically update on open** box to set the date each time you open the document or click the **Set to Today** button to auto-set the current date.

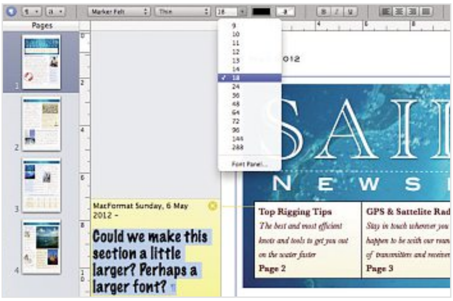
05 Add your text

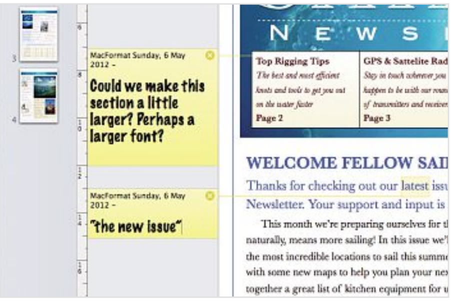
Click within the comment space and type your text after your name and the time and date text. You can hit ↩ to add more space to the comment and the comment space will get larger as you type. You can also use formatting within the comment area.


MacFormat Sunday, 6 May 2012 -
Could we make this section a little larger? Perhaps a larger font?

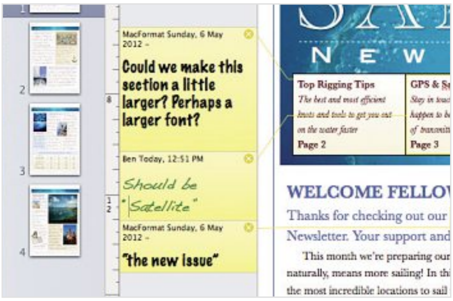
QUICK TIP

When you don't need a comment anymore, remove it by clicking the X button to the right of the comment space. The comment will then be removed permanently. You can also go back to a previously added comment and delete it or adjust the text within it if you wish.


MacFormat Sunday, 6 May 2012 -
Could we make this section a little larger? Perhaps a larger font?


MacFormat Sunday, 6 May 2012 -
Could we make this section a little larger? Perhaps a larger font?

MacFormat Sunday, 6 May 2012 -
"the new issue"


MacFormat Sunday, 6 May 2012 -
Could we make this section a little larger? Perhaps a larger font?

Ben Today, 12:51 PM
Should be "Satellite"

MacFormat Sunday, 6 May 2012 -
"the new issue"

06 Adjust the font

Select the text within the comment area and then click the **Font** menu at the top of the screen. Select a new font from the drop-down menu and also select a font style, such as thin or wide (if the font offers it). Now select a new size for your font from the drop-down menu.

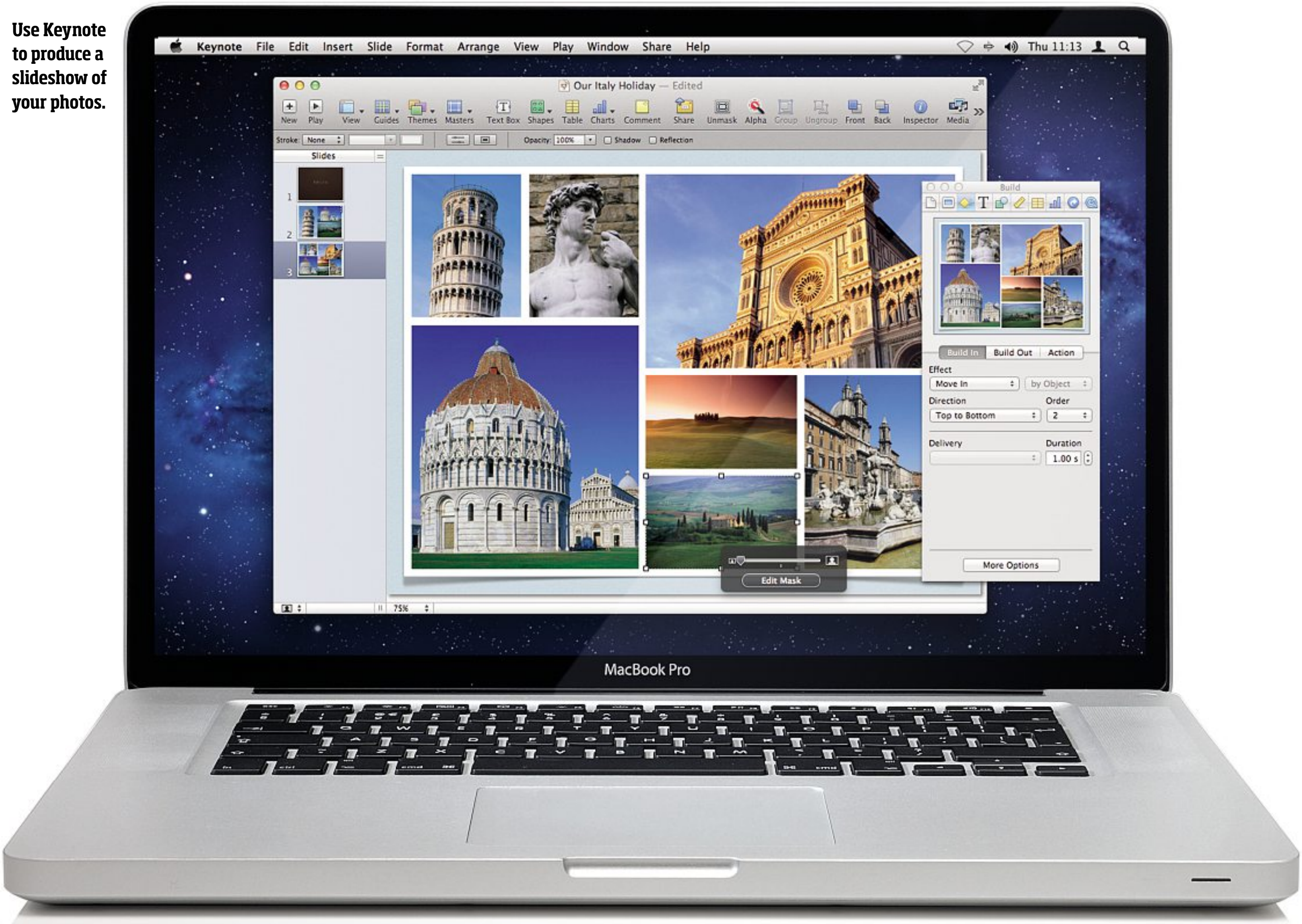
07 Comment on text

To comment on a single word or passage of text, highlight the text with the cursor by double-clicking a word or clicking and dragging across a passage. Click the comment button and the individual word or passage of text will be highlighted in yellow.

08 Save and share

When you've finished adding your comments you can save the document and send it to a friend. When they open the document all of your comments will be shown in the comments pane. They can then add their own comments to the document. ●

Use Keynote to produce a slideshow of your photos.


Keynote
File
Edit
Insert
Slide
Format
Arrange
View
Play
Window
Share
Help
Thu 11:13
Our Italy Holiday — Edited
New
Play
View
Guides
Themes
Masters
Text Box
Shapes
Table
Charts
Comment
Share
Unmask
Alpha
Group
Ungroup
Front
Back
Inspector
Media
Slides
Build
Build In
Build Out
Action
More Options
Edit Mask
MacBook Pro

Stroke: None
Opacity: 100%
☐ Shadow
☐ Reflection
Effect: Move In
by Object
Direction: Top to Bottom
Order: 2
Delivery
Duration: 1.00 s
75%

Create a stylish slideshow

Make a slick and smart presentation of your photos using Keynote

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
20 minutes

WHAT YOU'LL NEED
Keynote '09

Keynote isn't just a tool for presentations, it's also a great piece of software for creating slideshows from your photos. Of course, *iPhoto*, OS X screensavers and the Apple TV also create great slideshows from your photos, but *Keynote* offers you far more flexibility to tailor the show to your liking. For example, when creating an *iPhoto* slideshow, you only get to set the transition type and the images that are used.

By contrast, in *Keynote* you can select which images appear, how they appear and when they appear. You also have a wide range of transitions to work with and you're not limited to using a single transition in your slideshow.

In this tutorial, we're going to show you how to create a simple slideshow that works in a similar way to the default Apple TV screensaver. This will use the Move In transition and a selection of *Keynote* photo slide templates.

By setting the order in which the *Keynote* builds occur, as well as the direction that the transitions work in, you can quickly put together a really impressive and engaging slideshow.

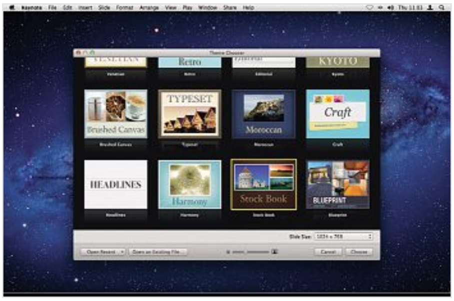
> *"Keynote isn't just a tool for presentations, it's also great for creating slideshows from your photos"*

You can then export it as a movie file and send it to friends, upload it to the web or simply show it off on your TV or Mac. We'll also show you how to include a cover slide for your project, complete with a title to introduce the images before the slideshow begins.

You will need a good selection of images to use with your slideshow. You'll also need to pick a *Keynote* template that includes collaged images, for the slideshow to look its best. Beyond that however, you're free to experiment with different styles and transitions to fine-tune your slideshow. That way you'll have it looking great in next to no time.

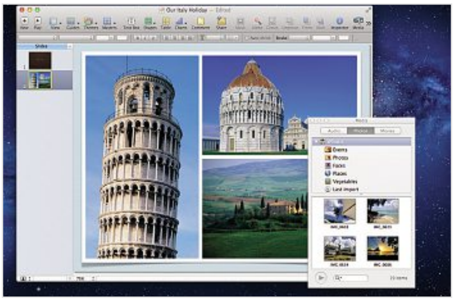
Ben Harvell

» HOW TO / Create a smart slideshow from your photos



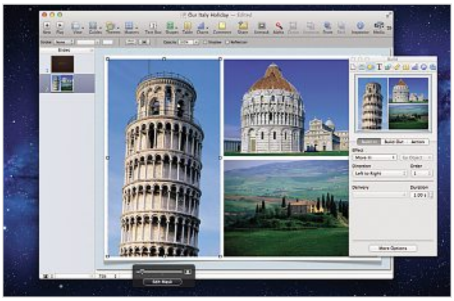
01 Pick a template

Launch *Keynote* and select a template to suit your slideshow. The Leather Book template is a good option for the cover of the slideshow but other templates include better slide styles for images. You can switch slideshow theme once you've started your project if you wish.



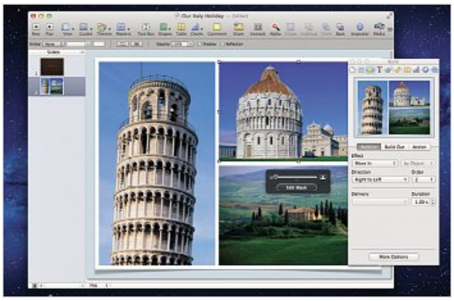
02 Add your photos

Fill in the text on your cover and add a new slide. From the **Masters** menu, select a photo-oriented style as we have here and switch theme if you need to. Click **Media** and drag the photos you want to use from the **Media Browser** and into the spaces provided.



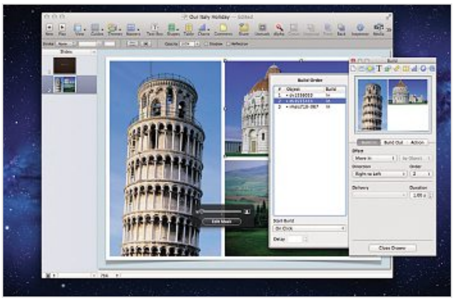
03 First photo

Select the first photo on your slide or the photo furthest to the left of the slide and click the Inspector button. Now click the **Build** tab at the top of the Inspector pane. Select **Move In** from the **Effect** menu and **Left to Right** from the **Direction** menu.



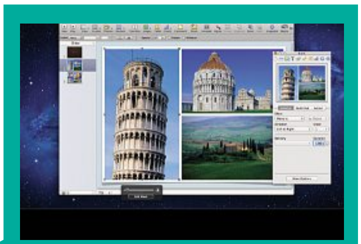
04 Next photo

Select the next photo in your slideshow and, in the Inspector's **Build** pane, select **Move In** from the **Effect** menu and **Right to Left** from the **Direction** menu. Now select the next image on your slide, set the **Move In** effect and select **Top to Bottom** as the direction.



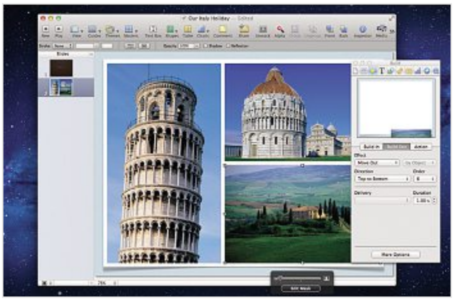
05 Set the order

Your images should be set to move in order from the first image to the last; check by clicking **More Options** in the Inspector's **Build** pane. This shows a list of the current builds and clicking one shows the transition in the preview window. Click and drag to reorder builds.



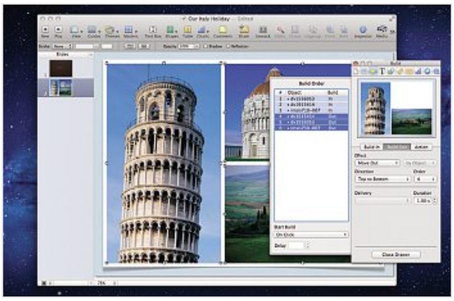
» QUICK TIP

Get your slideshow to run without the need to click each time you want a new build. Select **Automatically** from the **Start Build** menu on the **Build Order** screen. You can also set the duration of a build on the Inspector's **Build** pane so that your slideshow moves faster or slower.



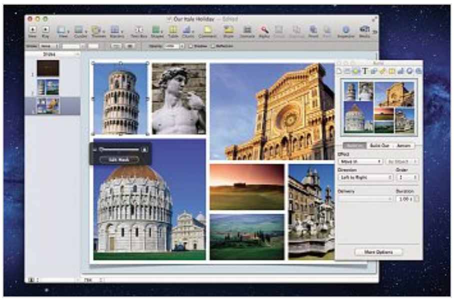
06 Building out

Select all slide images and click the **Build Out** tab in the Inspector's **Build** pane. Select the **Move Out** effect from the **Effect** menu and select **Top to Bottom** as the direction. This makes your images drop off the screen one by one when all the images have been added.



07 Order adjustment

Click the **More Options** button in the Inspector's **Build** pane again to show the **Build Order** if it isn't already shown. Three new builds will have been added for each image as they drop out. Drag the builds to new positions to set the order in which the images drop off the screen.



08 Continue

Continue to add slides and new images in this way until you've used all of your photos. You can also experiment by choosing new build effects and templates for each slide to keep things interesting. When you're done, save it or export it from the **Share** menu. ●

Get the most out of iCal

iCal is great for keeping you organised but it can do more than you might think…

»QUICK TIP

Adding a splash of colour to your calendars not only makes them look nice, but will help you stay organised. You'll be able to get a good idea of what's happening with your schedule with just a glance.

Tight integration with OS X Lion, means *iCal* is probably the first choice for many Mac users, when it comes to organising their personal affairs. But what a lot of people don't realise is that *iCal* is capable of receiving and sending lots of types of data: emails, web links, *Address Book* contacts and even Google Maps reference can be used. It's this integration that makes *iCal* so flexible and a lot more capable than most users might think.

With functionality such as iCloud syncing, shared calendars, drag-and-drop event creation, and natural language recognition, you have a true social scheduling solution. If you're an *iCal* user that only utilises the app for inputting single events or simple scheduling, the following techniques will show you new opportunities.

Naturally speaking

iCal's Natural Language allows the user to type in casual sentences to create potentially complex events. When adding an event using the plus symbol in the top left-hand corner of *iCal's* main interface a small text box appears – this is where the magic happens.

Let's say you want to meet your friend Dave at your local bar on Friday night at 8pm. Usually this would involve creating a new event, typing in something along the lines of 'Meet Dave at bar' and scheduling the exact time, so that the event is displayed correctly within your day's timeline.

But now you can simply hit the add button, type in 'Meet Dave at the bar at 8 on Friday night' and hey presto, the event is automatically created and saved in the correct location.

On testing, this function is pretty watertight and has yet to let us down. Obviously a small amount of common sense has to be applied: *iCal* can't be expected to work miracles and won't recognise text speak, slang or nicknames. But if your nicknames are in your address book its recognition abilities may surprise you.

> *"iCal can't really be expected to work miracles and won't recognise text speak, slang or nicknames"*

Drag and drop

Another super-easy workflow technique is *iCal's* drag-and-drop capability. This is somewhat overlooked by the majority of users and something you should really take advantage of.

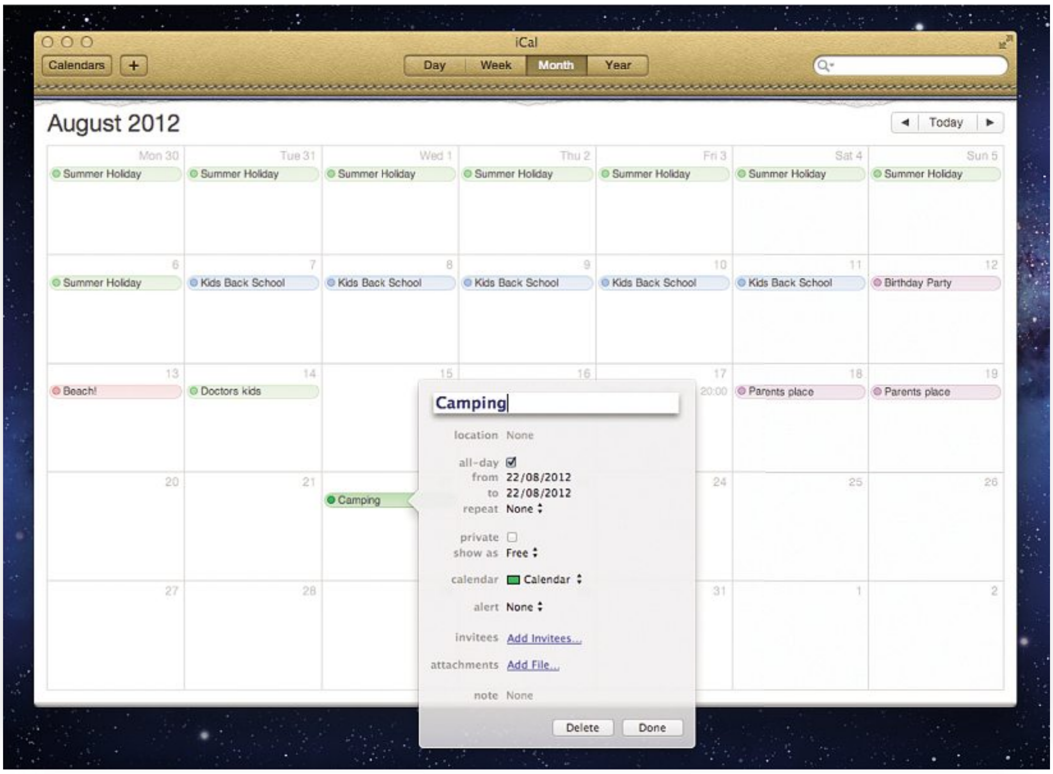
Just about anything can be dragged and dropped into *iCal* to create a new event or alter an existing one. Text files, images, web links and even entire emails can be dragged and dropped into *iCal's* interface for use with your events. This can be a great way of linking relevant material to scheduled meetings or a nice way of creating a simple to do list.

There are a couple of ways you can go about using drag and drop: first up you can use it for event creation. Let's say you receive an email from a family member; you haven't got time to reply to it just now, you'll do it at the end of the day. Simply drag the email straight into a specific day in *iCal* and set a time. This creates an event and can act as a handy reminder. Not only will you see the event in your *iCal* schedule but you'll also have direct access to the email itself.

If you have a memory like a sieve and need a bit of a helping hand when it comes to reminders then you can take things one step further. Try adding an alarm to the scheduled email. You can choose an audio prompt or an email reminder to reply to the critical message.

Using the drag and drop system to append information to *iCal* events requires a slightly different approach. Double-click any event in the same way as you would performing a standard edit. Now, instead of clicking edit, perform a drag-and-drop action with your chosen file.

You can drag pictures, web links or text documents and they'll be added



August 2012

Mon 30	Tue 31	Wed 1	Thu 2	Fri 3	Sat 4	Sun 5
Summer Holiday	Summer Holiday	Summer Holiday	Summer Holiday	Summer Holiday	Summer Holiday	Summer Holiday
6 Summer Holiday	7 Kids Back School	8 Kids Back School	9 Kids Back School	10 Kids Back School	11 Kids Back School	12 Birthday Party
13 Beach!	14 Doctors kids	15	16	17 20:00	18 Parents place	19 Parents place
20	21	Camping		24	25	26
27	28			31	1	2

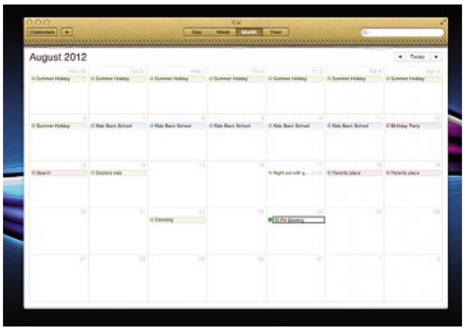
Camping

location None
all-day ☑
from 22/08/2012
to 22/08/2012
repeat None
private ☐
show as Free
calendar 🟩 Calendar
alert None
invitees Add Invitees...
attachments Add File...
note None

Delete Done

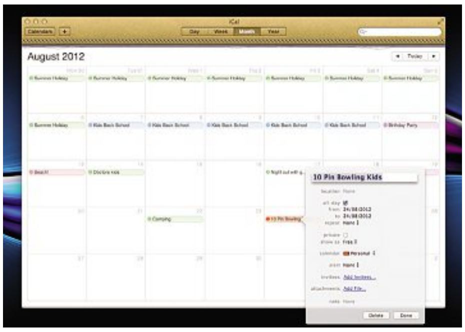
When you master some of iCal's hidden features it can become a drag and drop social networking tool.

HOW TO / Set up an event with invitees



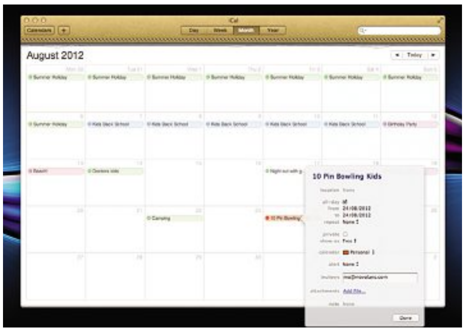
01 Create a new event

Create an event that you want to invite friends or family to. Click the + button in the top left and enter some relevant text or double click in *iCal's* main display area. You'll see your new event most clearly in month or week view.



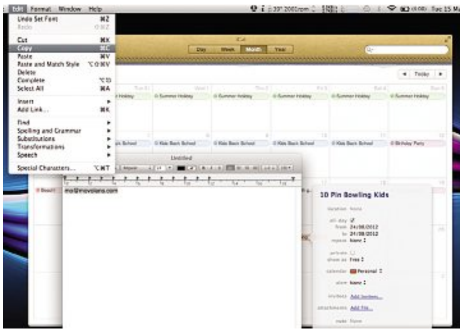
02 Give it a name

Name your event appropriately and ensure it's in the same calendar as other similar events. This simple technique colours the event and it can also be placed with other shared events and quickly displayed or hidden.



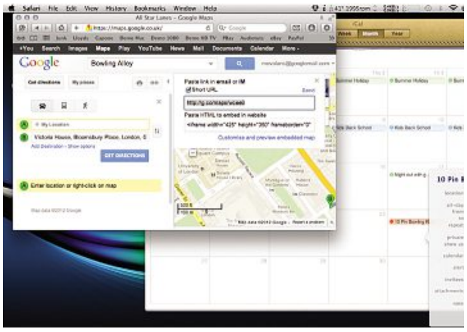
03 Invite someone

Click the **invitees** link. This reveals a window in which you can type your chosen invitee's names. If they are present in your *Address Book* then the text pane will auto-complete automatically.



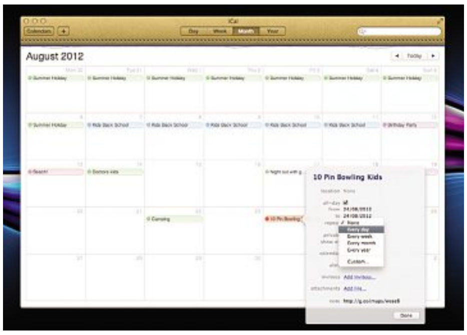
04 Add an email address

If your contacts aren't in your *Address Book* then the names won't auto-complete. An alternative is to fill them in manually or cut and paste the invitees' email addresses from an email, a web page or even a document.



05 Give them directions

Add extra info to the event by dragging and dropping a link to a Google Map route, pictures or even an email that you'd like everyone to read. Once you're finished, hit send. The invite is emailed to everyone on your list.



06 Make any amends

You can fine-tune your event at any time: simply change times and parameters or click on **repetition** if you'd like to make the event weekly. The invitees will be notified of your revisions so they're all kept up to date with your plans. ●

to the event as an attachment. This is a great way to add a newly created spreadsheet to a planned business meeting or a shopping list to a scheduled trip to town.

Everyone's invited

So now you've mastered some faster ways to create and edit events, how can we use *iCal* to invite people to events and share an event or entire calendar with other *iCal* users? As you would expect, it's all pretty straightforward. Let's focus on inviting others to an event.

Go ahead and create an event in any way you like. With your event added, hit **Edit** – you should now see the regular edit page, presenting you with various options for altering your event's parameters. Towards the bottom you'll see an 'Invitees' section. By typing people's names here they should auto-complete from entries in your *Address Book*.

If you don't have the invitee's address in your *Address Book* you can complete the address manually, or drag and drop it from an email or note. Once completed, the list of invitees will be emailed and informed of the upcoming event.

If you prefer, you can drag invitees directly from your *Address Book* into *iCal*; this will create a meeting event with the chosen contacts and inform them of the meeting.

> *"You can drag pictures, web links or text documents and they'll be added to the event as an attachment"*

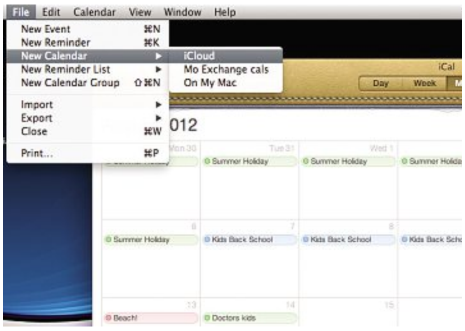
The social iCloud

The final thing we'll think about is how to share an entire calendar with a specific person, or even a group of people. You can initiate shared calendars using a few different protocols in *iCal*, but we're going to concentrate on the current Apple »

QUICK TIP

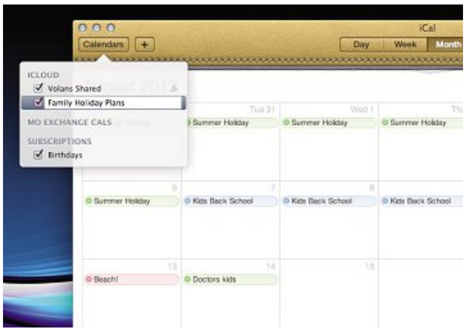
Click on a date in an email, and you are presented with a small representation of similar events and the option to enter it into your schedule.

HOW TO / Create an iCloud-based shared calendar


File Edit Calendar View Window Help
New Event ⌘N
New Reminder ⌘K
New Calendar
New Reminder List
New Calendar Group ⇧⌘N
Import
Export
Close ⌘W
Print... ⌘P
iCloud
Mo Exchange cals
On My Mac
iCal
Day
Week
Summer Holiday
Kids Back School
Beach!
Doctors kids

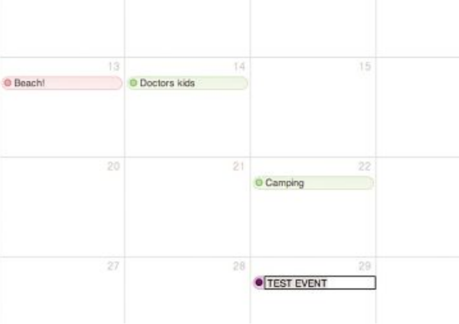
01 Create an iCloud calendar

Create a standard Calendar. Do this by going to **File** and choosing **iCloud** as the account. This will create a calendar using the active iCloud email address on your machine. It's best to check your iCloud settings at this point.


iCal
Calendars
+
Day
Week
Month
ICLOUD
Volans Shared
Family Holiday Plans
MO EXCHANGE CALS
SUBSCRIPTIONS
Birthdays
Summer Holiday
Kids Back School
Beach!
Doctors kids

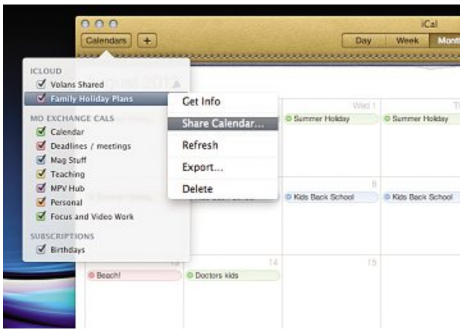
02 Name and colour-code it

Name and colour your new Calendar. It's a good idea to name it with your invitees in mind. If it's a family calendar, think about using your surname, or perhaps make it event specific. An example would be 'Family Holiday Plans'.


Beach!
Doctors kids
Camping
TEST EVENT

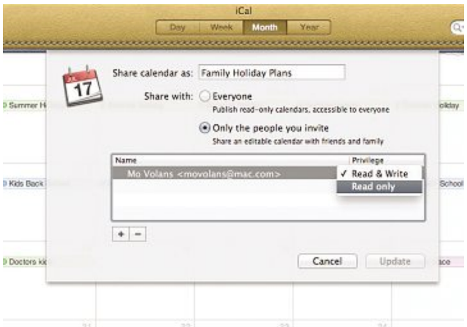
03 Test it out

Input an event to get the calendar started. This will check the calendar is working when you start to add invitees. If they accept, you can ask them if they received the initial events. Call it 'Test Event' so it stands out.


iCal
Calendars
+
Day
Week
ICLOUD
Volans Shared
Family Holiday Plans
MO EXCHANGE CALS
Calendar
Deadlines / meetings
Mag Stuff
Teaching
MPV Hub
Personal
Focus and Video Work
SUBSCRIPTIONS
Birthdays
Get Info
Share Calendar...
Refresh
Export...
Delete
Summer Holiday
Kids Back School
Beach!
Doctors kids

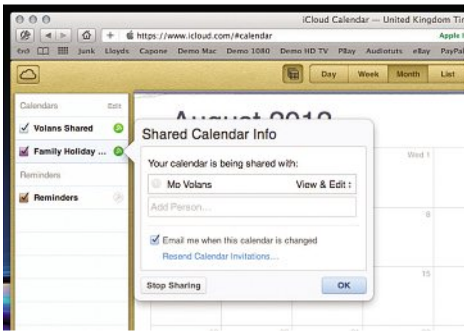
04 Share your calendar

Click on **Calendars**, right-click on your new calendar and click **Share Calendar**. Then click on the **sharing** icon and add invitees. Add them by email or, if they're in your *Address Book*, start typing the name, the rest will auto-complete.


iCal
Day
Week
Month
Year
17
Share calendar as:
Family Holiday Plans
Share with:
Everyone
Publish read-only calendars, accessible to everyone
Only the people you invite
Share an editable calendar with friends and family
Name
Privilege
Mo Volans <movolans@mac.com>
✓ Read & Write
Read only
+ −
Cancel
Update

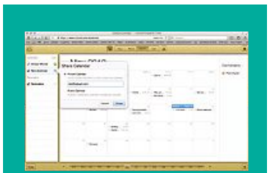
05 Set level of access

You can choose access rights for each invitee in this page. You can decide whether each invitee can just read the events or read and write. If you choose the latter, the invitee can add, delete and alter current events.


iCloud Calendar — United Kingdom
https://www.icloud.com/#calendar
Day
Week
Month
List
Calendars
Volans Shared
Family Holiday ...
Reminders
Reminders
August 2012
Shared Calendar Info
Your calendar is being shared with:
Mo Volans
View & Edit
Add Person...
Email me when this calendar is changed
Resend Calendar Invitations...
Stop Sharing
OK

06 Make final changes

You can choose to have an email sent to specific invitees when a change is made to the event list. Remember if you don't have access to *iCal* you can make any of these changes by logging into iCloud.com wherever you are. ●



QUICK TIP

If you don't have access to your own machine, you can log in to the iCal web app which gives you access to all your personal and shared calendars.

standard, iCloud. As with most of the functionality explained here you'll need to be using OS X Lion (10.7+).

To get a shared iCloud-based calendar on the go, you and your invitee need to be fully signed up to the service and you'll also need to use the emails (usually your '.me' based address) you signed up to the service with.

Once you have all this in place you can go ahead and create a calendar in the usual way and give it an appropriate name, say, 'My Shared Calendar'. Click on the Calendar's button in the top left-hand corner of *iCal* and select the icon that looks like a Wi-Fi beacon.

The window provides you with all the options you need to set up one or more invitees for your newly created Calendar. You can fill in the Apple ID-based email addresses here and the invitees will receive an email. Once they agree to share the calendar they'll be able to view all the entries.

You can decide whether they can read, or read as well as write events in the Calendar. With full read and write authorisation both yourself and the invitee can make, delete and append events. You can even choose to be mailed every time a change is made.

> *"To use a shared iCloud-based calendar you and your invitee need to be fully signed up to the service"*

Remember that you can see these changes pushed to your new Calendar not only on your Mac but also on any iOS device using the same iCloud account. This means you can view, edit and append your family calendar on the go with your iPhone or iPad. In addition to this, you can use any of the techniques discussed previously with your shared calendars. So now there's no excuse for missing those important events ever again!

Mo Volans

Mac FORMAT
All your Apple needs

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SPECIAL DEAL

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Get 25% off **MacPaw CleanMyMac!**

Look after your Mac with this excellent suite of system maintenance and clean-up utilities

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Universal binary apps (those designed to run natively on both Intel and PowerPC processors) can be stripped down to leave only the code your particular Mac needs, and a great application uninstaller lets you remove all an application's components when you delete it – much more efficient than just dragging it into the trash. And, unlike many system utility suites, *CleanMyMac* is easy to use, as well as comprehensive. Purchasers get a free upgrade to *CleanMyMac 2*, which is currently in development. For a complete list of *CleanMyMac*'s features, go to **http://macpaw.com/cleanmymac**.

MacPaw *CleanMyMac* usually costs £25 for a full version, with double and family packs also available, but with *MacFormat's* exclusive offer, you can get 25% off any *CleanMyMac* licence. Just point your browser at **http://macpaw.com/uk/store**, and use the discount code **MF2012**. But don't delay: the offer expires on 24 August 2012.

Use code MF2012 at macpaw.com/uk/store

SYSTEM REQUIREMENTS

Intel or a PowerPC processor, OS X 10.4.11 or later, around 20 MB of hard-disk space

Manage your email better

Keep on top of all your messages by defining rules in Apple Mail

KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
OS X

When you receive lots of daily emails, the important ones can quickly become buried underneath a mass of other messages. As a consequence, you may forget to reply to one, or simply have to spend time later rooting through lots of messages to find the email you're looking for. While OS X's *Mail* app has an excellent search feature to help you track down misplaced emails, you can save yourself huge amounts of time by setting up rules to handle your emails.

Rules determine what happens to certain new messages when they arrive, and, on the page opposite, we show you how to set them up the way you want. For example, you could create a rule to direct all mail from a particular sender to go to a specific folder (known as a Mailbox), or the receipts from your iTunes and App Store purchases to go to another. This can help keep your inbox clear of items that don't require immediate – or indeed any – attention. Conversely, mail that does need an instant response could be directed to an Urgent mailbox and sound an alert for your immediate attention. It's really up to you.

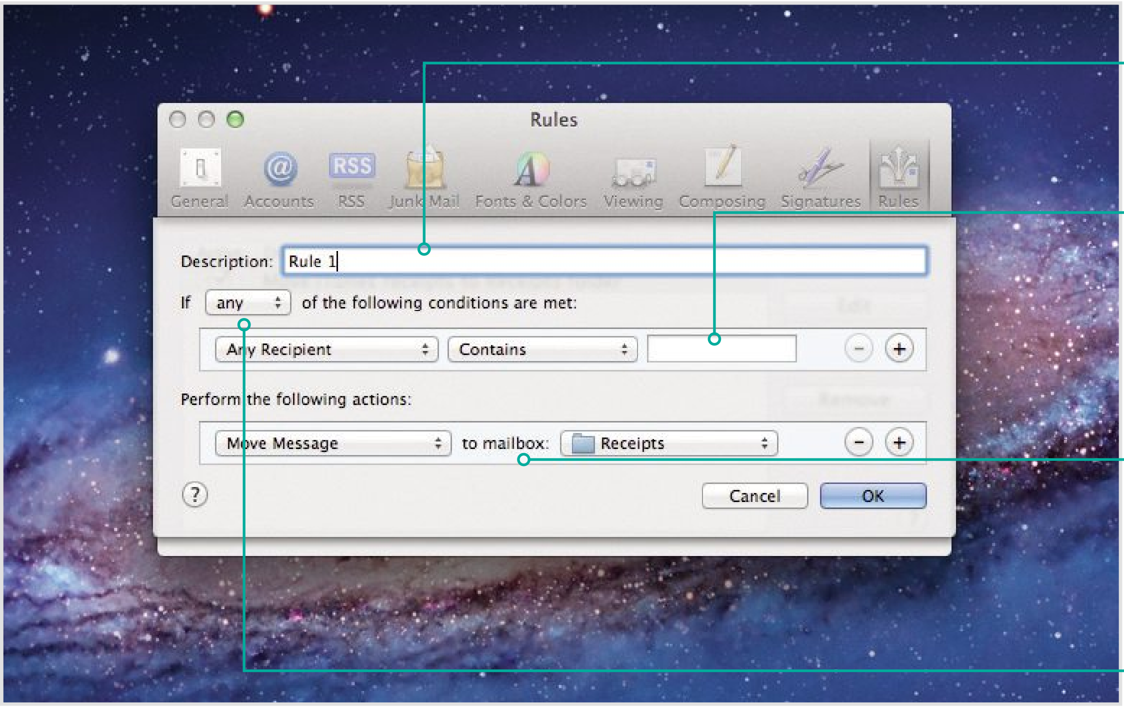
The way you set up rules means you can make them as sophisticated as you need, so you can specify a certain number of conditions must be true before the rule is applied to a given message. By taking the time to think about and set up the right rules, you can tame even the most unwieldy inbox relatively easily. And the handy thing about rules is that you can always go back later and alter them if your mail isn't quite being handled in the way you want. All the settings you need are in *Mail*'s **Preferences** window, which you can access via the **Mail** menu, or by pressing ⌘+,. Click the **Rules** button on the far right of the top bar.

> *"You can save yourself huge amounts of time by setting up so-called rules to handle your incoming emails"*

Note that rules are applied when emails arrive on your Mac. This means that if you use a web-based service such as Gmail or Hotmail (and read your email elsewhere on the web as well as in *Mail*) then the rules won't have been applied to new mail when you read it in a web browser. However, when you later open *Mail* on your Mac, any relevant rules will be applied as it picks up the new messages from your email service.

Laurence Cable

HOW TO / Create a new rule



Description: Rule 1

If any of the following conditions are met:

Any Recipient Contains

Perform the following actions:

Move Message to mailbox: Receipts

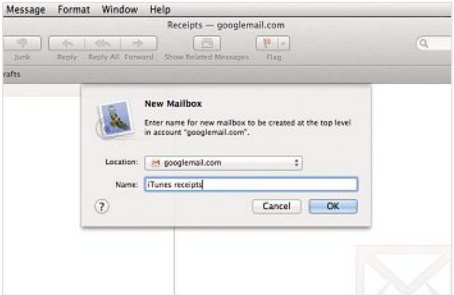
Rule name
Type in a descriptive name for your new rule here; this will help you recognise it in the list.

Conditions
Set the conditions to which incoming mail must adhere.

Responses
Specify what happens to messages that meet the conditions above.

Any/all conditions
Choose whether all or one of the conditions must be true.

HOW TO / Set up rules in Mail



New Mailbox

Enter name for new mailbox to be created at the top level in account "googlemail.com".

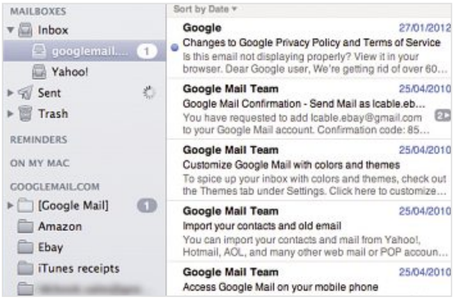
Location: googlemail.com

Name: iTunes receipts

Message Format Window Help
Receipts — googlemail.com
Cancel
OK

01 Your first rule

Let's start by creating a simple rule that moves all incoming mail from a certain email address to a given folder. Before setting up the rule, create the folder – known as a Mailbox. Go to the **Mailbox** menu and pick **New Mailbox...** Type a relevant name in the **Name** box.



MAILBOXES
Inbox
googlemail...
Yahoo!
Sent
Trash
REMINDERS
ON MY MAC
GOOGLEMAIL.COM
[Google Mail]
Amazon
Ebay
iTunes receipts
Sort by Date

Google 27/01/2012
Changes to Google Privacy Policy and Terms of Service
Is this email not displaying properly? View it in your browser. Dear Google user, We're getting rid of over 60...

Google Mail Team 25/04/2010
Google Mail Confirmation - Send Mail as lcable.eb...
You have requested to add lcable.ebay@gmail.com to your Google Mail account. Confirmation code: 85...

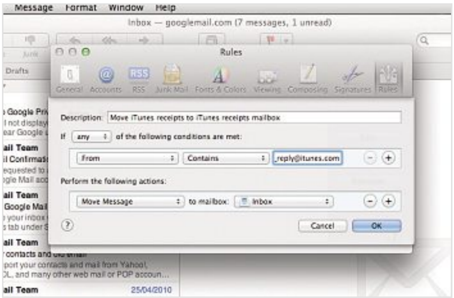
Google Mail Team 25/04/2010
Customize Google Mail with colors and themes
To spice up your inbox with colors and themes, check out the Themes tab under Settings. Click here to customize...

Google Mail Team 25/04/2010
Import your contacts and old email
You can import your contacts and mail from Yahoo!, Hotmail, AOL, and many other web mail or POP accoun...

Google Mail Team 25/04/2010
Access Google Mail on your mobile phone

02 Mailbox ready

Use the Location drop-down to choose where the folder appears: if you've got one mail account set up, you likely won't need to touch this menu. Click **OK** and the Mailbox appears in the left column towards the bottom, under your account name. Click **Mail** > **Preferences**.



Description: Move iTunes receipts to iTunes receipts mailbox

If any of the following conditions are met:

From Contains reply@itunes.com

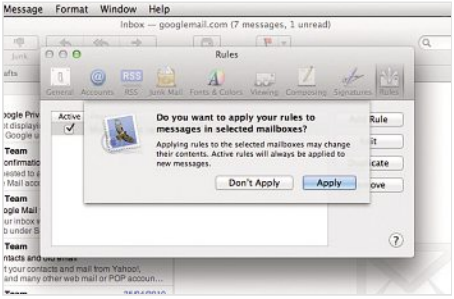
Perform the following actions:

Move Message to mailbox: Inbox

Rules
General
Accounts
RSS
Junk Mail
Fonts & Colors
Viewing
Composing
Signatures
Rules
Cancel
OK

03 Conditions

Click **Rules** > **Add Rule**. In the **Description** box, give the rule a name; ours is 'Move iTunes receipts to Receipts folder'. Next, find the drop-downs in the blue box and set the first one to **From**, the second to **Contains**. In the text box, type the sender's email address.



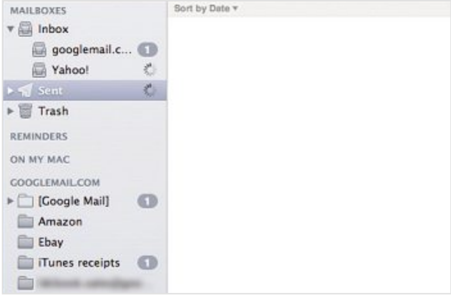
Do you want to apply your rules to messages in selected mailboxes?

Applying rules to the selected mailboxes may change their contents. Active rules will always be applied to new messages.

Rules
Don't Apply
Apply

04 What next?

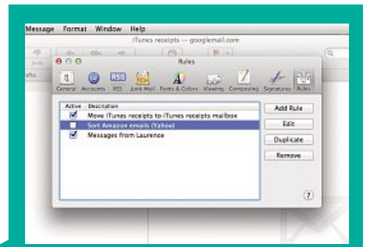
Below, you choose what gets done with messages from that email address. For this example, set the first menu to **Move Message**, then pick the newly created folder from the second drop-down. Click **OK** – you're asked if you want to apply the rule to mail already received.



MAILBOXES
Inbox
googlemail.c...
Yahoo!
Sent
Trash
REMINDERS
ON MY MAC
GOOGLEMAIL.COM
[Google Mail]
Amazon
Ebay
iTunes receipts
Sort by Date

05 Ready to use

Your rule will work in the background whenever new mail arrives from the given address. Notice how the Mailbox the messages go to have a number badge next to them indicating how many unread emails it contains. Let's now look at setting up more complex rules.

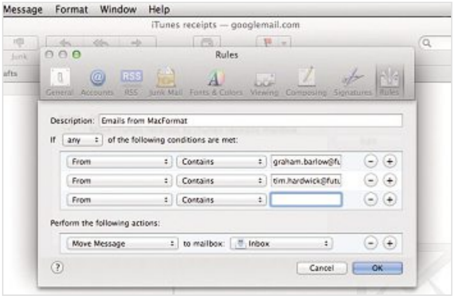


☑ Move iTunes receipts to iTunes receipts mailbox
☐ Sort Amazon emails (Yahoo)
☑ Messages from Laurence

Rules
Active
Description
Add Rule
Edit
Duplicate
Remove

QUICK TIP

If you want to disable a rule you've created temporarily, but don't want to delete it, go to Mail > Preferences > Rules and untick the checkbox next to the one you'd like switched off. To switch it on again later, simply tick the box once more and your rule will be reactivated.



Description: Emails from MacFormat

If any of the following conditions are met:

From Contains graham.barlow@f...

From Contains tim.hardwick@futu...

From Contains

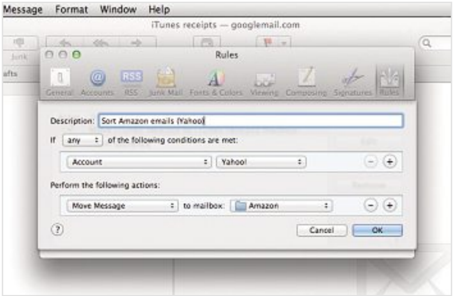
Perform the following actions:

Move Message to mailbox: Inbox

Rules
Cancel
OK

06 Multiple conditions

Go to **Mail** > **Preferences** > **Rules** > **Add Rule** again. Note the + and - buttons at the right-hand end of the blue boxes. These enable you to add multiple conditions or actions. The 'If' drop-down enables you to choose whether all conditions must be met, or just any you specify.



Description: Sort Amazon emails (Yahoo)

If any of the following conditions are met:

Account Yahoo!

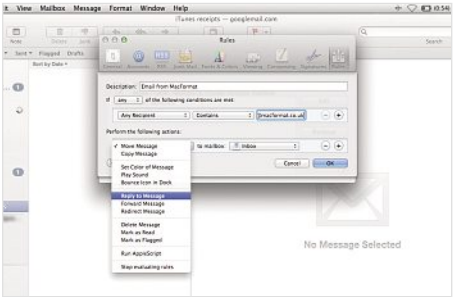
Perform the following actions:

Move Message to mailbox: Amazon

Rules
Cancel
OK

07 Account-specific rules

If you've got several email accounts set up, you can apply rules to each one individually. Set the 'If' drop-down to 'all', then set the first of the conditions drop-downs to **Account**. Pick the one you want from the next drop-down. Then click + to add the conditions of your rule.



Description: Email from MacFormat

If any of the following conditions are met:

Any Recipient Contains @macformat.co.uk

Move Message
Copy Message
Set Color of Message
Play Sound
Bounce Icon in Dock
Reply to Message
Forward Message
Redirect Message
Delete Message
Mark as Read
Mark as Flagged
Run AppleScript
Stop evaluating rules
No Message Selected

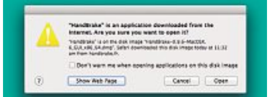
08 Response actions

You can also auto-flag messages that require attention, play a sound when certain mail comes in, or even automatically reply to mail with specific text. Use the bottom left drop-down menu to see what's on offer, and use the + button to add more responses. ●

Protect against malware

Are we wrong not to worry too much about cyber-attacks targeting Macs?

» QUICK TIP
Open a program for the first time and you're greeted with this warning, telling you what you're opening and where it came from, just in case what you thought was an innocent JPEG image is actually a malicious piece of software.



"HandBrake" is an application downloaded from the Internet. Are you sure you want to open it?

☐ Don't warn me when opening applications on this disk image

Malware is short for malicious software and generally refers to any program that was installed on your Mac without your knowledge or approval. The discovery of the Flashback malware sparked headlines around the globe that our little corner of the digital world was no longer safe; that we couldn't hide behind "security through obscurity"; that soon, we'll have a platform that will be just as vulnerable as Microsoft's, and purchasing anti-virus software will be the norm.

We don't know about you, but we've heard it all before. Ever since the birth of OS X we've been told that any day now, viruses will appear and wipe that smug look off our faces for having thought our system was more secure than the competition's. Well, it hasn't happened yet and considering the direction Apple is taking, chances are, these predictions of doom won't be realised anytime soon.

But that doesn't mean to say we should be complacent: far from it. Mac OS X isn't perfect – how could it be? It was designed by humans after all, and that Flashback malware did infect an estimated 1% of the Mac install base; that's roughly 600,000 Macs. It's a huge number, but let's not forget that Apple did issue a fix for the problem reasonably quickly, including a means of removing the malware should it be in your system.

So how filled with holes is that Swiss cheese operating system of ours? Let's take a look at what security is available out of the box on a standard Mac.

Before you even think about malware, there's the potential threat of someone hacking into your computer. The chances of this happening are actually quite remote, but your Mac does come prepared for that eventuality. Mac OS X has a firewall built-in. Its objective is to monitor the flow of data through your computer and determine whether to allow that data to pass based on a series of predetermined rules. These rules can be manually configured and with OS X Lion, you can also control which programs are allowed access to certain parts of the network – if you need to be that specific.

> *"Ever since the birth of Mac OS X we've been told that viruses will wipe that smug look off our faces"*

Enter the vault

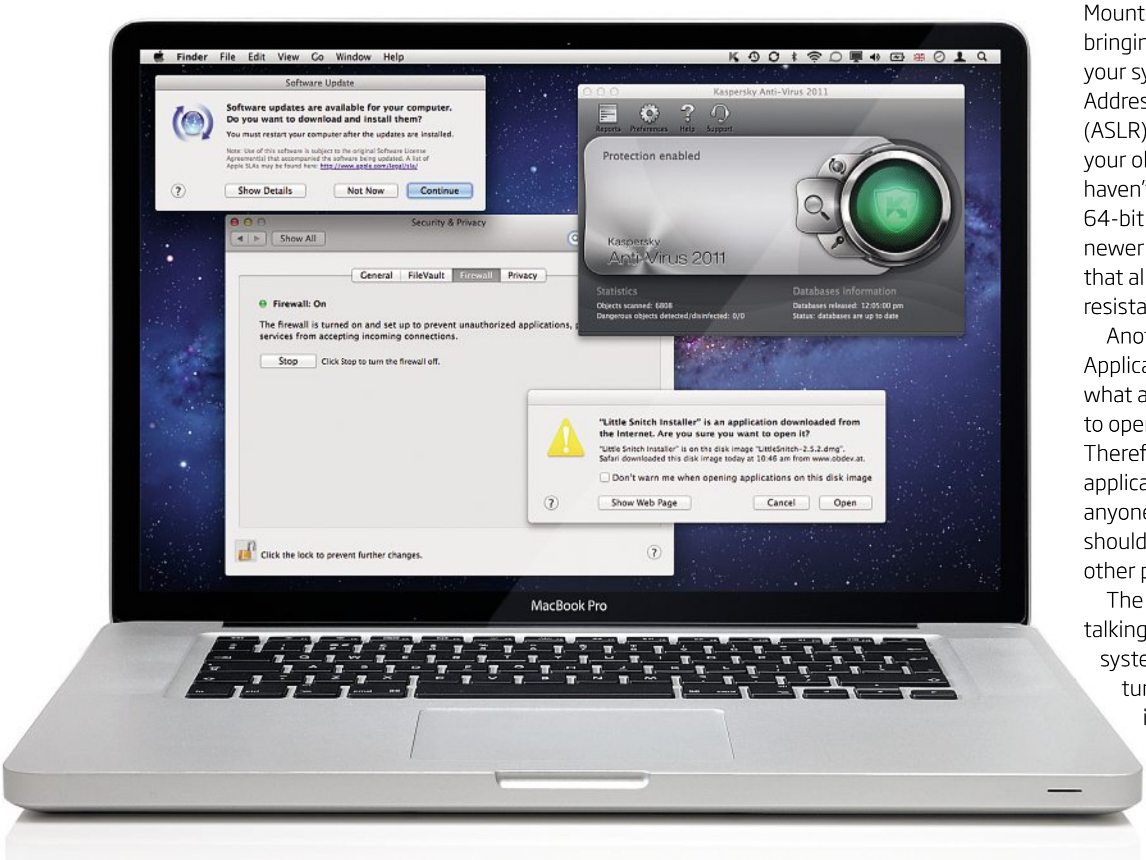
Should you get hacked, you can make the process much harder by encrypting your data with FileVault. This *System Preferences* option has been available since Mac OS X 10.3, but was vastly improved with Lion. It no longer slows down your computer to any noticeable degree, and it's now possible to back up your Mac with *Time Machine* without encountering any conflicts.

With the upcoming release of Mountain Lion later this year, Apple is bringing further security measures to your system. Improvements include Address Space Layout Randomisation (ASLR), which offers protection for your older programs (those that haven't yet been upgraded to support 64-bit computing) as well as the newer ones (that do). This means that all your applications will be more resistant to attack.

Another welcome addition is Application Sandboxing, which limits what a program can do, like being able to open a file or access the network. Therefore, should one of your applications have a vulnerability, anyone accessing your Mac through it shouldn't be able to gain control of other parts of your system.

The one that's got many people talking is Gatekeeper. This new system preference is designed to turn your Mac into an iOS device in terms of security – and by that we mean you can set it up to only allow apps purchased from the Mac App

There are many options available to you when it comes to making your Mac more protected.



Software updates are available for your computer. Do you want to download and install them?

You must restart your computer after the updates are installed.

Note: Use of this software is subject to the original Software License Agreement(s) that accompanied the software being updated. A list of Apple SLAs may be found here: http://www.apple.com/legal/sla/

Firewall: On

The firewall is turned on and set up to prevent unauthorized applications,

services from accepting incoming connections.

Click Stop to turn the firewall off.

Click the lock to prevent further changes.

Protection enabled

Objects scanned: 6808
Dangerous objects detected/disinfected: 0/0

Databases released: 12:05:00 pm
Status: databases are up to date

"Little Snitch Installer" is an application downloaded from the Internet. Are you sure you want to open it?

"Little Snitch Installer" is on the disk image "LittleSnitch-2.5.2.dmg". Safari downloaded this disk image today at 10:46 am from www.obdev.at.

☐ Don't warn me when opening applications on this disk image

» FLASHBACK / What is it all about?

The Flashback malware, officially known as Trojan BackDoor, has been observed since September 2011. A new variant called Backdoor.Flashback.39 appeared in April 2012 and rapidly infected 600,000 Macs across the world, although most were in the USA. It worked by exploiting a vulnerability in Mac OS X's Java engine (a programming language designed by Sun Microsystems – now owned by Oracle). The danger with this exploit is that it happened solely by visiting a bogus website where a JavaScript code triggered a small program to load and save a file onto your Mac. That file was then used to run malware from a remote location.

Oracle released a fix for this particular glitch back in February, but it wasn't inserted into a Mac security update until after the infection took hold. This is because Apple is still responsible for distributing patches to Java rather than Mac owners getting the updates straight from Oracle themselves. This disparity between who's responsible for delivering timely updates – the software maker (Oracle) or the platform owner (Apple) – will be resolved soon as Oracle is finally taking over responsibility of Java on the Mac, just like it's responsible for versions on Windows and Linux.

Apple hadn't implemented Oracle's Java update in time to stem the spread.

Store to run on your computer. You can also open the gate a little more and allow apps from "identified developers" who aren't on the Mac App Store (Apple are currently creating a list of such individuals and companies), or if you'd prefer the current free-for-all, devil-may-care, let's-install-whatever-we-want attitude, you can switch to the third and lowest mode of security, which is essentially what we've been used to since the early days of computing.

Warning signs

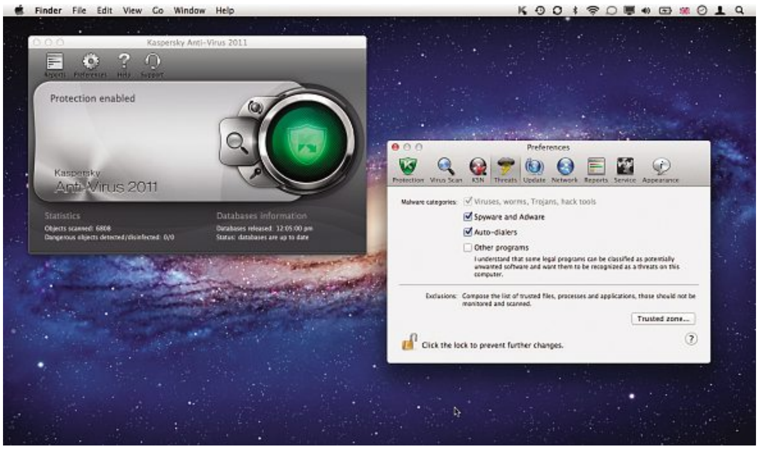
But for now, how can we manage with the system we're currently using? Well, Apple has already covered many of the bases. For instance, the first time you launch an app you've downloaded from the web, your Mac will bring up a warning window and ask you if you're sure you want to open the program in question. Most of the time you'll say yes, and once approved, you won't see that message again for that particular program, so what's the point of this annoying little window? It's to protect you against software that masquerades as something else, like a JPEG image for instance. If you were to double-click on a malicious file to open it, you'd be greeted with that very same warning window, which would hopefully give you pause for thought and enable you to cancel the operation, thereby thwarting that piece of malware.

None of this happens with software from the Mac App Store of course, because Apple's already checked those apps and deemed them to be safe. In fact, if you already only purchase apps exclusively from there, you've got a large part of what Gatekeeper is aimed to do. The advantage of Gatekeeper, of course, is that apps that creeped onto your system without your knowledge should have an even harder time launching.

> *"One of the best lines of defence against malware is to keep your Mac as up-to-date as possible"*

One of the best lines of defence against malware is to keep your Mac's software as up-to-date as possible. Adobe's Flash, for instance, has been judged to be a major cause of security vulnerabilities, so you should grab every patch Adobe throws at you (or just follow the lead of your iOS devices and remove it completely from your Mac!). But you also need to do this for your Mac's operating system, which is where the *Software Update* feature comes into play. Apple releases regular security updates and they will show up on your Mac ready to be downloaded. For instance, Mac OS X 10.7.4 released in early May also included a patch for a password security hole that was present with FileVault, a glitch that only just cropped up the week before.

Your Mac can automatically check for updates on a daily, weekly or monthly basis, and you can instruct it to download patches automatically, so that by the time the alert window comes up, all you need to do is click on install and the process will start »


Finder File Edit View Go Window Help
Kaspersky Anti-Virus 2011
Reports Preferences Help Support
Protection enabled
Kaspersky Anti-Virus 2011
Statistics
Databases information
Preferences
Protection Virus Scan KSN Threats Update Network Reports Service Appearance
Trusted zone...

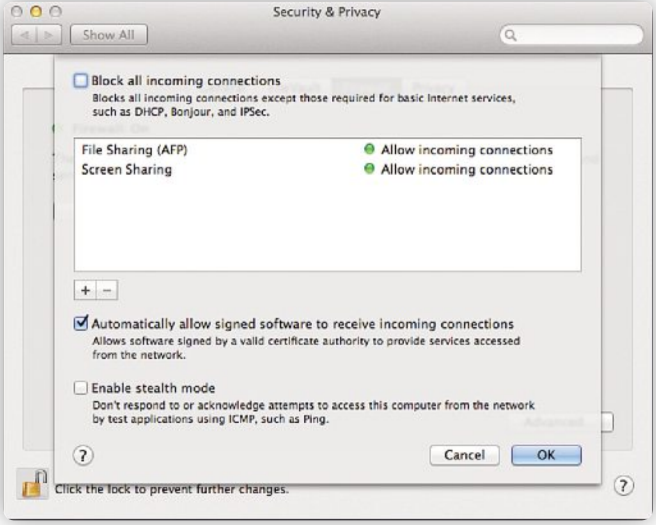
Objects scanned: 6808
Dangerous objects detected/disinfected: 0/0
Databases released: 12:05:00 pm
Status: databases are up to date

Malware categories: ☑ Viruses, worms, Trojans, hack tools
☑ Spyware and Adware
☑ Auto-dialers
☐ Other programs
I understand that some legal programs can be classified as potentially unwanted software and want them to be recognized as a threats on this computer.

Exclusions: Compose the list of trusted files, processes and applications, those should not be monitored and scanned.

Click the lock to prevent further changes.

Many antivirus suites exist for the Mac platform, such as this one from Kaspersky. They will provide an additional layer of protection, should you feel the need for it.



☐ Block all incoming connections
Blocks all incoming connections except those required for basic Internet services, such as DHCP, Bonjour, and IPSec.

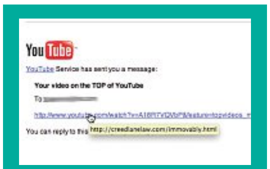
File Sharing (AFP)	● Allow incoming connections
Screen Sharing	● Allow incoming connections

☑ Automatically allow signed software to receive incoming connections
Allows software signed by a valid certificate authority to provide services accessed from the network.

☐ Enable stealth mode
Don't respond to or acknowledge attempts to access this computer from the network by test applications using ICMP, such as Ping.

Click the lock to prevent further changes.

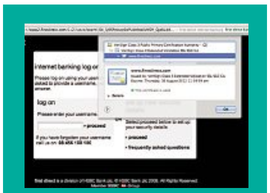
You Mac comes with a built-in Firewall to limit how data flows through the network (access its options in the Security & Privacy System Preferences).



YouTube Service has sent you a message:
Your video on the TOP of YouTube
To [redacted]
You can reply to this
http://creedlanelaw.com/immovably.html

» QUICK TIP

If you'd like to know which website a link in an email points to, move your cursor over it and a yellow note with the exact URL appears, helping you to see if your destination is the same as the one being advertised.



» QUICK TIP

Most legitimately secure websites display their security certificates on the browser's address bar. In *Safari*, you can see it as the company's name in green to the right that field. Click on it to access the certificate.

immediately. Working with Lion also makes such updates much more pain-free. With previous versions, you'd have to close your web browser, email program, and any other apps you had running since most security patches require a restart. With Lion however, once you restart, your Mac will come back exactly as you left it, with all your apps and your open documents right where you left them ready for you to get back to work.

I've got the remedy

Despite the fact that Macs obviously aren't invulnerable, there isn't a real and pressing need to install anti-virus and anti-malware protection as a matter of course. However, such programs are available if you feel the need for additional security. Just remember that those programs' databases need to be updated regularly otherwise you won't be protected from the latest malware, just the ones the developers knew about when they released the version you purchased. You can get *Norton AntiVirus 12 for Mac*, *Intego VirusBarrier X6* or *Bitdefender Antivirus for Mac*, to name but three. If you're on a budget and are looking for free alternatives, *Bitdefender Virus Scanner* and *ClamXav*, among others, are available directly from the Mac App Store.

But malware isn't your only source of concern: you need to be wary of scams cleverly designed to part you from your money or personal information. This is called phishing. I'm sure we're all wise to those emails from rich deposed Nigerians who need to hide their funds in your bank account for just a few days, but most modern scams are cleverer than that. You may find an email appear in your inbox from your bank, asking you to log into your account because someone may have gained access to your funds. If you were to follow the instructions and click on the link provided, you'd be sent to a page that looks so much like your bank's that you could be fooled into handing them your username and password, and after that… well, let's not think about the consequences.

Featured
Top Charts
Categories
Purchases
Updates
FLUX4
RADIANT DEFENSE
Apps for Designers
New Apps Added
New & Noteworthy
See All ›
Syder Arcade
Games
JPEGmini
Photography
Snabbit
Games
Producteev
Productivity
47 Ratings
Rail Maze
Games
5 Ratings
Dunno
Lifestyle
5 Ratings
HyperPdf
Utilities
Land-a Panda
Games
Save the Aliens
Games
Don't Run With a Pla...
Games
Fix-it-up: Kate's Adv...
Games
Dungeon Crawlers
Games
Quick Links
Welcome Steve
Account
Redeem
Support
All Categories
OS X Lion
Apple Apps
Apps Starter Kit
Games Starter Kit
Apps Enhanced for OS X Lion
Great Free Apps
Personal Projects
Better Together
Macs In Class
Get Stuff Done
Top Paid
See All ›

If you feel the web is too insecure, limit your program purchases to the Mac App Store.

> *"You need to be wary of scams cleverly designed to part you from your money or personal information"*

What's the password?

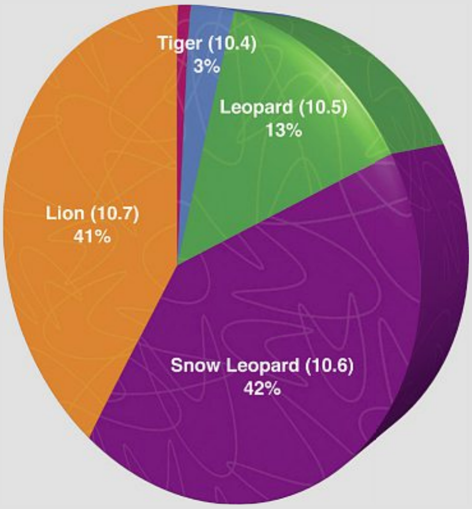
So how can you avoid falling prey to such scams? Your bank or other institution would never contact you in this way for such information, but simply ignoring those emails isn't enough. Most of us only use a handful of passwords for our internet activity (some only use one), so if 'YouTube' contacts you and asks for your password and you give it to them, those scam artists have your email address and password, and can try them on other sites, such as eBay or Amazon, and go on a shopping spree.

Many of these scam websites are known, and modern browsers will warn you if you're heading into dangerous territory, but this is a game of cat and mouse with websites often moving around faster than anyone can keep track of, which is why you need to apply a little diligence. Your Mac is there to help you with that. For instance, if you see a link in a potentially dodgy email, move the cursor over it but do not click on it. After a few seconds, a yellow pop-up appear showing the address this link will send you to. If the address matches, you're good to go, if not,

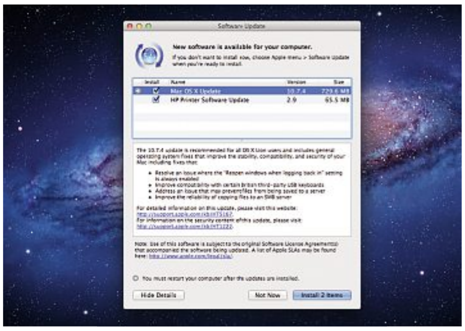
» LEGACY THREAT / Are older Macs left out in the cold?

Apple's fix to take care of the Flashback malware arrived pretty fast once the news broke to show how many Macs had been infected. But the fact remained that Apple only supports its current operating system and the one immediately preceding it, i.e., 10.7 Lion and 10.6 Snow Leopard. So what could owners of version 10.5 Leopard do to protect themselves? After all, it's estimated that about 13% of Mac users are still running that version (which should be roughly 7,800,000 Macs), according to **www.netmarketshare.com**.

Thankfully, Apple did the right thing and released an update to Leopard on May 15 called the 'Leopard Flashback Removal Security Update' which cleans out the system and disables *Safari*'s Java plug-in – you can find out more about this patch by visiting **http://support.apple.com/kb/DL1534**. However, it does require the latest version of Leopard, namely, Mac OS X 10.5.8.



>> HOW TO / Make your Mac more secure, quickly and easily


Software Update
Hide Details
Not Now
Install 2 Items

New software is available for your computer.
If you don't want to install now, choose Apple menu > Software Update when you're ready to install.

Install	Name	Version	Size
☑	Mac OS X Update	10.7.4	729.6 MB
☑	HP Printer Software Update	2.9	65.5 MB

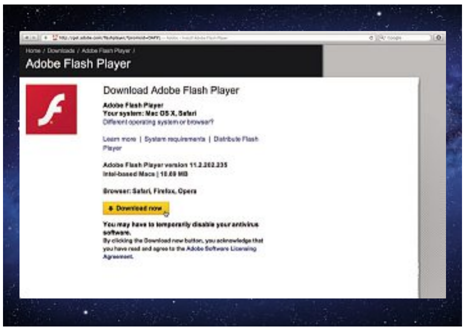
The 10.7.4 update is recommended for all OS X Lion users and includes general operating system fixes that improve the stability, compatibility, and security of your Mac including fixes that:

- Resolve an issue where the "Reopen windows when logging back in" setting is always enabled
- Improve compatibility with certain British third-party USB keyboards
- Address an issue that may prevent files from being saved to a server
- Improve the reliability of copying files to an SMB server

For detailed information on this update, please visit this website:
For information on the security content of this update, please visit:

Note: Use of this software is subject to the original Software License Agreement(s) that accompanied the software being updated. A list of Apple SLAs may be found here:

You must restart your computer after the updates are installed.


Home / Downloads / Adobe Flash Player /
Adobe Flash Player
Learn more | System requirements | Distribute Flash Player
Download now

Download Adobe Flash Player

Adobe Flash Player
Your system: Mac OS X, Safari
Different operating system or browser?

Adobe Flash Player version 11.2.202.235
Intel-based Macs | 10.69 MB

Browser: Safari, Firefox, Opera

You may have to temporarily disable your antivirus software.
By clicking the Download now button, you acknowledge that you have read and agree to the Adobe Software Licensing Agreement.

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>> MAC NEWS
Win! A rechargeable iPhone battery case
>> LATEST REVIEWS

01 Keep your Mac updated

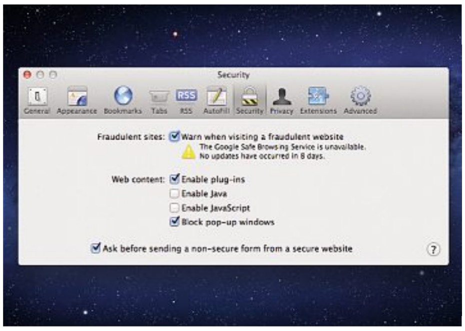
Check for updates regularly and make sure you do install them. It's sometimes advisable to wait a day or two to make sure the patch didn't create more vulnerabilities than it was supposed to solve – it's rare, but it has happened in the past.

02 Get the latest Flash

Flash is still an important facet of desktop computing, but it's becoming an ever bigger target for hackers because it's such a ubiquitous piece of software. You should therefore make sure that it's as up-to-date as possible, by visiting **www.adobe.com/uk**.

03 Stay abreast of the news

Malware often happens before anyone can devise a fix for it, so it's crucial to keep as well informed as possible, by regularly checking Mac news sites such as **www.macformat.co.uk**, and even subscribing to RSS feeds, so that you know when new information crops up.

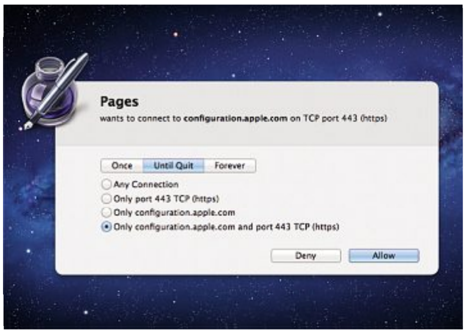

Security
General
Appearance
Bookmarks
Tabs
RSS
AutoFill
Security
Privacy
Extensions
Advanced
?

Fraudulent sites: ☑ Warn when visiting a fraudulent website
The Google Safe Browsing Service is unavailable.
No updates have occurred in 8 days.

Web content: ☑ Enable plug-ins
☐ Enable Java
☐ Enable JavaScript
☑ Block pop-up windows

☑ Ask before sending a non-secure form from a secure website

Little Snitch
Protect your privacy.
Watch the Video
Download
Buy


Once
Until Quit
Forever
Deny
Allow

Pages
wants to connect to **configuration.apple.com** on TCP port 443 (https)

○ Any Connection
○ Only port 443 TCP (https)
○ Only configuration.apple.com
● Only configuration.apple.com and port 443 TCP (https)

04 Disable Java

It's possible that you may not encounter sites that depend on Java or JavaScript, so you could try disabling it (via browser Preferences) to see if your online experience is affected. If it isn't, you just made your Mac a lot more secure.

05 Install Little Snitch

Firewalls may stop information coming in, but how do you know if anything's trying to get out? That's where a great little app called *Little Snitch* could become your best virtual friend. Download it from **www.obdev.at** (£24 + VAT).

06 Set up Little Snitch

You can tell *Little Snitch* to 'trust' specific apps so that it won't bother you each time you connect to the iTunes Store, for example. Any action from an unknown or untrusted app will show up, highlighting potential offenders. ●

send that email into the trash and don't look back. Official institutions such as banks also have security certificates and browsers, such as *Safari*, can show you that the site you're visiting is genuine by displaying the institution's name in green to the right of the address bar.

There's another growing threat and it has nothing to do with the internet, but with your phone. In the UK and Ireland, unsuspecting people are being rung by someone claiming to be from Microsoft, informing them that their computer is infected and they can help, for a fee. They'll gain control of the PC and lord knows what kind of malware they'll put in while claiming to help. Now of course, since you're running a Mac, you'll be able to laugh at them as you hang up, but with the increased popularity of our platform, we need to be aware that it may not be too long before someone calls claiming to be from Apple and telling us they've got an easy way to remove a fictitious infection. The safest thing to do, will be to hang up immediately.

> *"There's another growing threat and it has nothing to do with the internet, but with your phone"*

But despite the fact that no system is perfect and that our Macs are indeed vulnerable to attack, most viruses and other malware go after Windows. As the most dominant platform in the world, it's the lowest hanging fruit. What we need most, as Mac users, is vigilance. There's no need to unplug from the internet; just be wary of unsolicited emails, check which websites you visit, be careful what you download and make sure your Mac's software is as up to date as possible. With those precautions in place, you should be able to continue your regular daily online activities and not encounter any problems.

Steve Paris

Software Update
Check Now
Daily
Weekly
Monthly

>> QUICK TIP

Customise *Software Update* by clicking on its *System Preferences* icon. Choose how often your Mac checks for updates and whether to download updates automatically.

Batch-convert images

Set up an automatic process to convert images to a different format

>> KEY INFO

DIFFICULTY
Advanced

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
OS X, some images to convert

Picture files come in all sorts of formats such as JPEG and TIFF. Each has its own individual strengths, but it's common to need to change the format of one or more images. For example, you might need to convert a sizeable TIFF file into a smaller JPEG to email it to someone. Doing this manually – even for a single file – takes time, so we're going to show you how to set up an automated process for converting one or more image files from one format to another. The input files can be in BMP, GIF, JPEG, PDF, PICT, PNG or TIFF format. All you'll need to do is drop the files' icons onto an app in your Mac's Dock and they'll be converted to the format you've specified.

To do this, we'll be using an app called *Automator*, which resides in your Applications folder. We'll show you the basics of how to use it, so that you can go on to create your own processes to help you work faster and smarter.

Before we get stuck in, let's explain what the process we're about to create will do. It will appear as an application on your Mac, just like *Mail*, *Safari* or *Pages*. When you drag and drop image files onto the app's icon, the files will be copied to a new folder on your desktop (so that the originals remain untouched). These images will then be converted into the format of your choice.

If this doesn't sound exactly the way you want your process to work (you may, for example, want the new folder to be created elsewhere) then there are plenty of options you can tweak to make the process do exactly what you want.

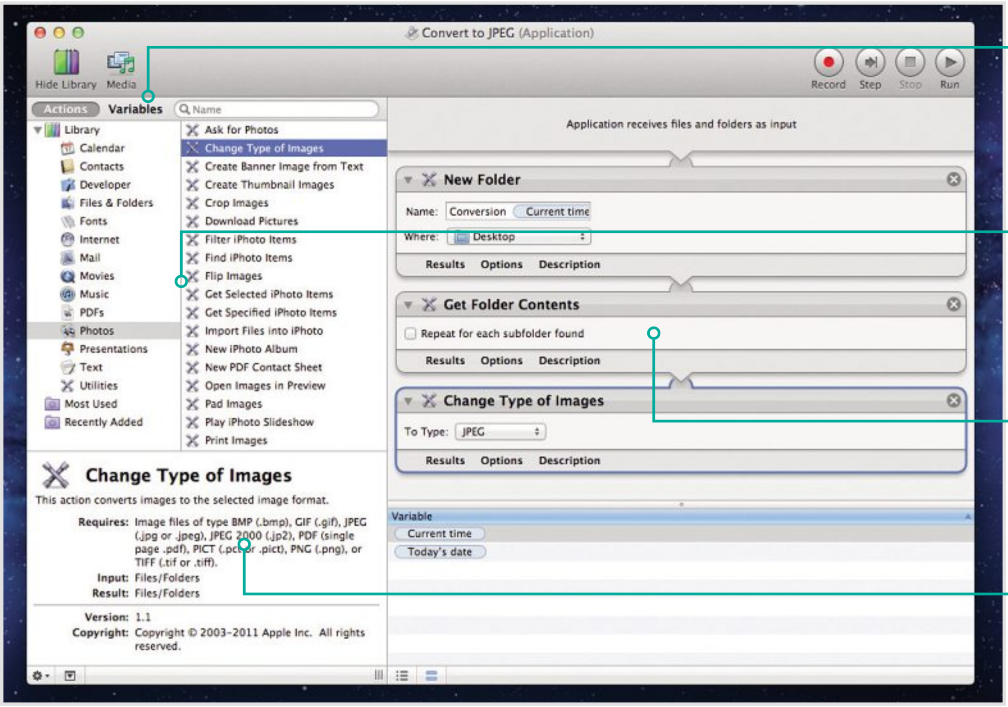
> *"Automator is quite an advanced app, and doesn't always hold your hand if things go wrong"*

Once you've seen what *Automator* is capable of and how easy it is to create your own processes, you can start getting creative with it. This will enable you to work more quickly with your Mac, automating the mundane tasks, so you can get on with the fun, creative stuff.

Be aware, though, that *Automator* is quite an advanced app, and doesn't always hold your hand if things go wrong or your process fails to complete successfully. You can click View > Log to see what's happened, but the results aren't always particularly helpful, meaning you may need to undertake a bit of trial and error to get things right.

Laurence Cable

>> QUICK LOOK / The Automator interface


Convert to JPEG (Application)
Hide Library
Media
Record
Step
Stop
Run
Actions
Variables
Name
Library
Calendar
Contacts
Developer
Files & Folders
Fonts
Internet
Mail
Movies
Music
PDFs
Photos
Presentations
Text
Utilities
Most Used
Recently Added
Ask for Photos
Change Type of Images
Create Banner Image from Text
Create Thumbnail Images
Crop Images
Download Pictures
Filter iPhoto Items
Find iPhoto Items
Flip Images
Get Selected iPhoto Items
Get Specified iPhoto Items
Import Files into iPhoto
New iPhoto Album
New PDF Contact Sheet
Open Images in Preview
Pad Images
Play iPhoto Slideshow
Print Images
New Folder
Get Folder Contents
Change Type of Images
Results
Options
Description
Variable
Current time
Today's date

Application receives files and folders as input

Name: Conversion Current time
Where: Desktop

☐ Repeat for each subfolder found

To Type: JPEG

Change Type of Images

This action converts images to the selected image format.

Requires: Image files of type BMP (.bmp), GIF (.gif), JPEG (.jpg or .jpeg), JPEG 2000 (.jp2), PDF (single page .pdf), PICT (.pct or .pict), PNG (.png), or TIFF (.tif or .tiff).
Input: Files/Folders
Result: Files/Folders

Version: 1.1
Copyright: Copyright © 2003–2011 Apple Inc. All rights reserved.

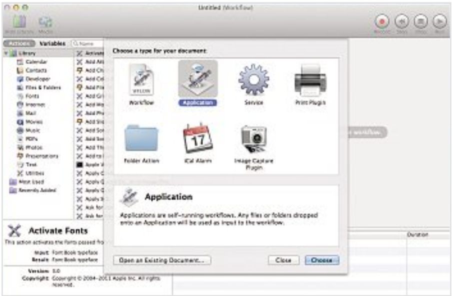
Actions & Variables
Actions are tasks your process can perform, while Variables include the date or time, which you can add to filenames.

Left & right columns
The left column groups your Actions or Variables by category, the right lists individual items.

Process area
This is the area you drag Actions to, to create a process. Rearrange the Actions by dragging them.

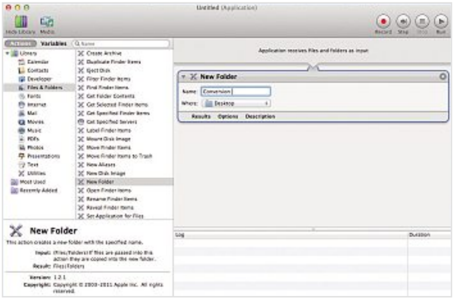
Description
Click an Action or Variable, and this area explains what it does and the inputs and outputs.

HOW TO / Set up an automatic process



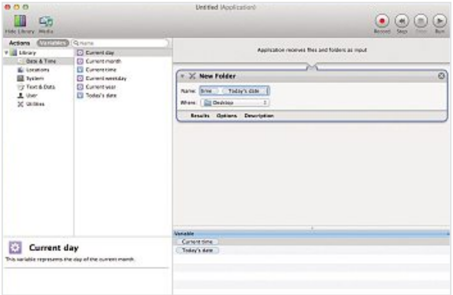
01 Create an app

Open up *Automator* from your **Applications** folder or Launchpad. First off, you'll be asked what kind of document you'd like to create. Click **Application**, then click the **Choose** button. You'll now see the main *Automator* window, as shown on the left.



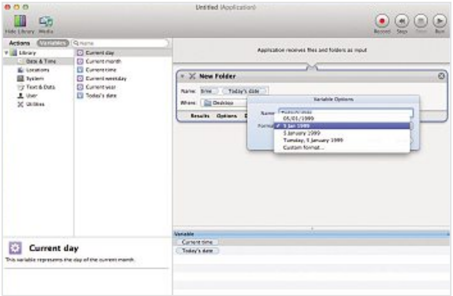
02 Create folder

In the left-column, click **Files & Folders**, then find **New Folder** in the second column. Drag this to the top-right pane. In the text field next to **Name**, type 'Conversion' followed by a space. Then click the **Variables** button, followed by the **Date & Time** category in the left column.



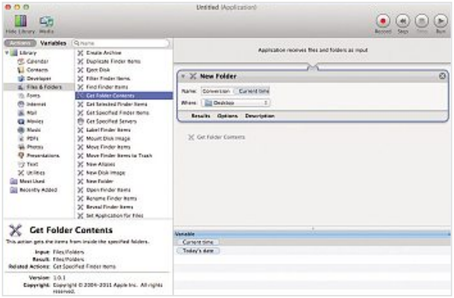
03 Time and date

Drag 'Current time' to the text field where you typed 'Conversion'. It appears as a lozenge. Now drag 'Today's date' from the right column to the text field. Click in the text field and use the ◀ and ▶ keys to move around and insert a space between the two lozenges.



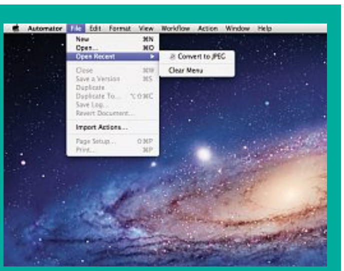
04 Change the format

Double-click the 'Today's date' lozenge and change the **Format** drop-down to one that does *not* contain a '/' symbol. Then click **Done**. Finder actually interprets the '/' in the date as being the next level in the folder hierarchy, which will cause your process to fail.



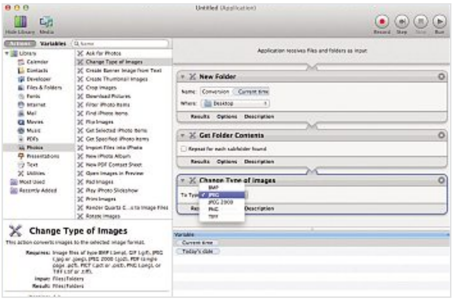
05 Get Folder Contents

Leave 'Where' set to 'Desktop'. Now click Actions > Files & Folders and drag 'Get Folder Contents' to the area below your 'New Folder Action' in the **Process** area. This picks up the contents of the folder ready for the next step where we convert the image format.



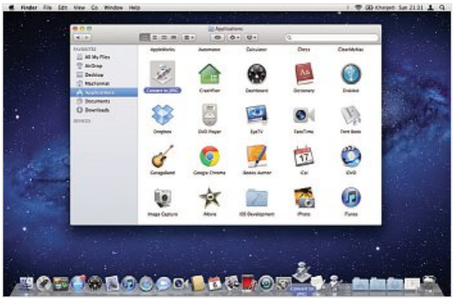
QUICK TIP

Something not quite right with your process? You can always go back and tweak it to perform just the way you want. Reopen *Automator*, then go to File > Open Recent and click yours to make any changes. Don't forget to save it when you're done editing.



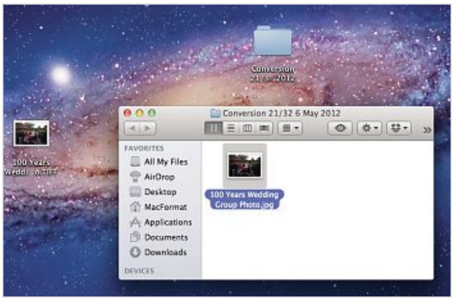
06 Change image format

Click Actions > Photos and drag 'Change Type of Images' beneath 'Get Folder Contents'. In the pop-up, click **Don't Add**, because the files have been duplicated by the New Folder Action. Use the 'To Type' drop-down to pick your output format. In our case, we've gone for JPEG.



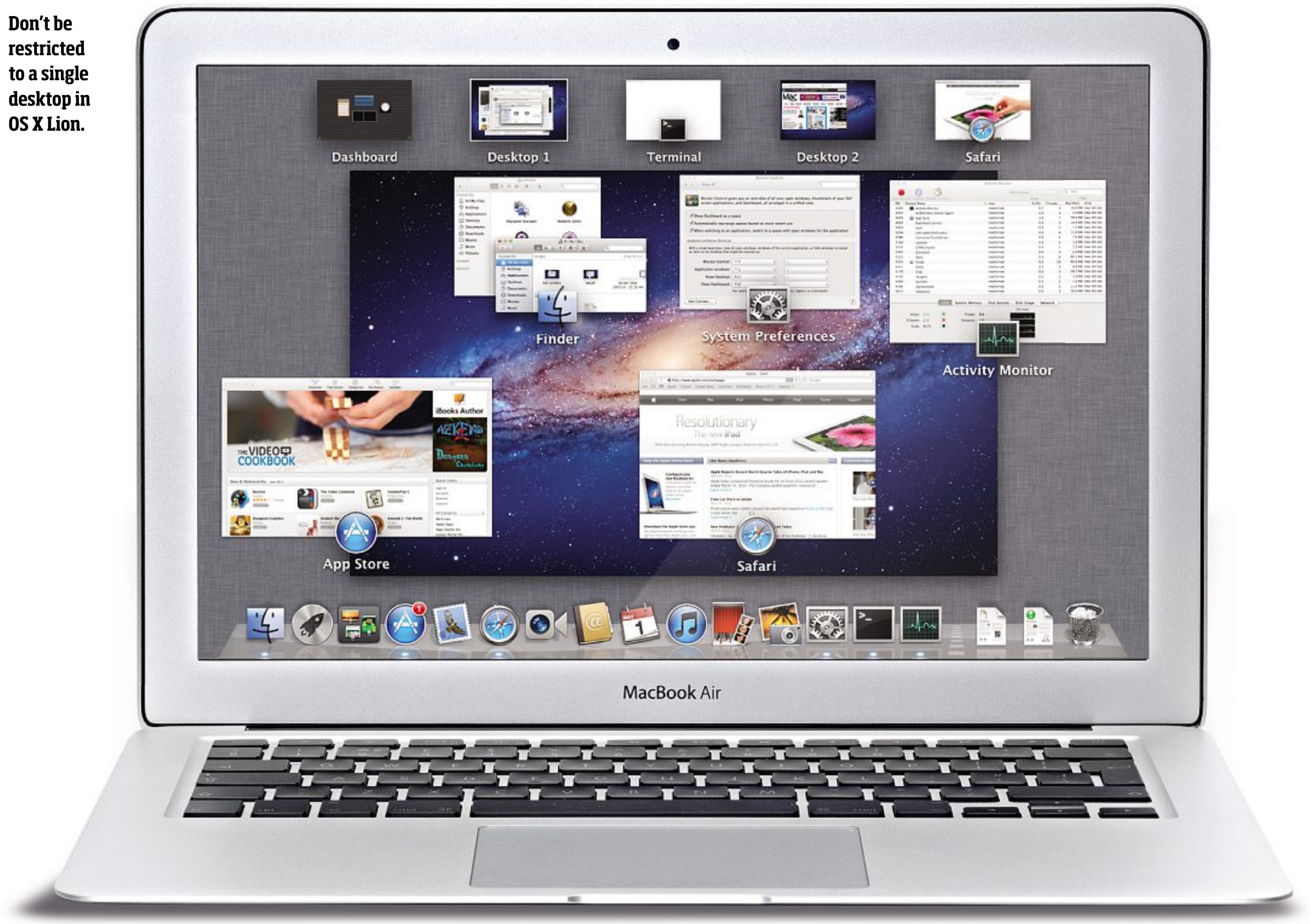
07 Save your process

Now click the **File** menu and choose **Save…**. Give your process a name, such as 'Convert to JPEG' – if necessary, click the arrow next to the text field, and browse to your **Applications** folder. Click **Save**. Now locate your app and drag its icon to your Dock.



08 Try it out

Find an image file that isn't a JPEG, and drag it onto the 'Convert to JPEG' icon in the Dock. When the app icon goes dark, let go of your mouse or trackpad button, and the images are converted and placed in a new folder on your desktop. The original(s) will be untouched. ●



Don't be restricted to a single desktop in OS X Lion.

Master Mission Control

Manage multiple desktops and navigate between full-screen apps with ease

» KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
OS X Lion

Back in the early days of computing, you could only use a single application at a time. Consequently, you rarely had to deal with more than a handful of windows. Today's Macs are immensely powerful by comparison, and so it's easy to find yourself with dozens of open apps, each with many of their own windows. This can result in a huge mess that's difficult and tedious to pick through, in order to find the one window you really need at any given time.

Previous versions of OS X have provided tools to manage windows, including window manager Exposé, virtual desktop system Spaces, and single-key commands for accessing the Desktop. These were largely merged and reworked in OS X Lion, into a system that's known as Mission Control. Now, prodding a single key (or shortcut) makes your desktop zoom out, and you're presented with an overview of what's running on your Mac: icons of open apps are displayed with a stack of open windows, and full-screen apps appear in a row at the top.

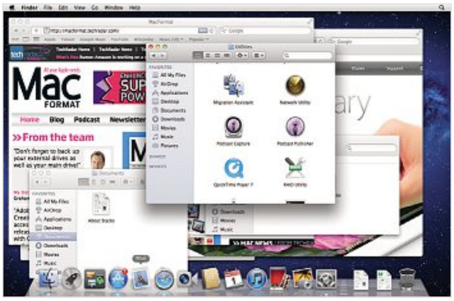
Additionally, Mission Control provides a mechanism for creating extra desktops. These can be used to separate out individual apps or groups of apps, thereby creating user-defined workspaces. You could, for example, house *Mail* and *iCal* in one desktop, and your photo apps in another. If you just want to 'clear the deck' temporarily for a single app, you needn't use an extra desktop – hold ⌘+⌥ and click a Dock icon to hide all other open apps.

> *"Prodding a single key makes your desktop zoom out – a Mission Control overview of what's running"*

We'll take you through Mission Control, showing you how to create a new desktop, manage full-screen apps, and define keyboard shortcuts. We also note how to trigger shortcuts of an app's windows – a holdover from the Exposé system used in previous versions of OS X.

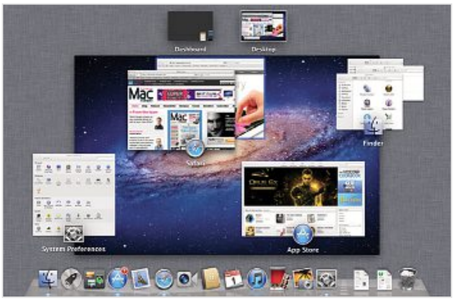
Craig Grannell

HOW TO / Learn to use Mission Control



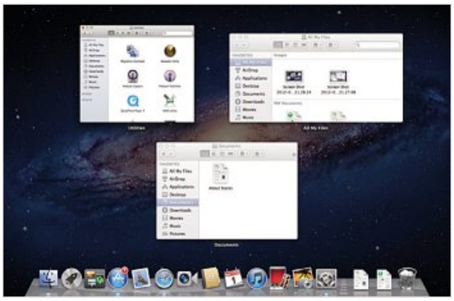
01 Open lots of windows

To get started, open up a bunch of applications and windows and just make a mess. Here, we've launched *Safari* (with two windows), *System Preferences* and the Mac App Store, and we've also opened a few *Finder* windows. The result is chaos!



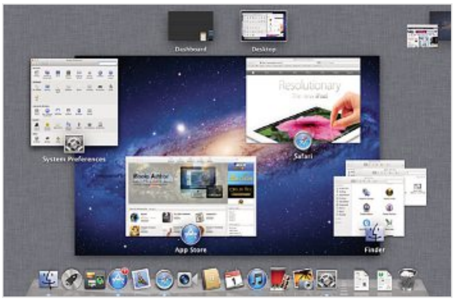
02 Use Mission Control

Tap the Mission Control key on your keyboard (F3) or use ctrl+▲. Your desktop will zoom out and the Dock will appear. The icon and name of each app with visible windows will be displayed, with window thumbnails. Select one to return with it at the front.



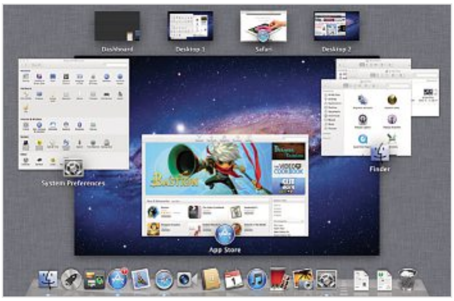
03 View an app's windows

To only see the windows belonging to a single app, bring the app to the front by selecting one of its windows or clicking its Dock icon. Now ctrl-click Mission Control in the Dock and select **Show Application Windows**, or use the shortcut ctrl+▼ arrow.



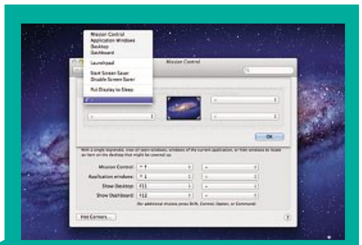
04 Make a new desktop

Create extra desktops to further organise your windows. In Mission Control, drag a window to the large [+] at the top-right of the screen and a new desktop will be created. To remove it, hover over the desktop in Mission Control and click the close button.



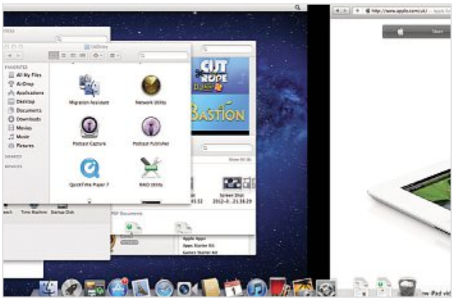
05 Use full-screen apps

Put a *Safari* window in full-screen mode (ctrl+⌘+F), and then open Mission Control. You'll see the full-screen window at the top of the screen, alongside your desktops. Note that any items bar *Dashboard* and 'Desktop 1' can be rearranged by dragging them.



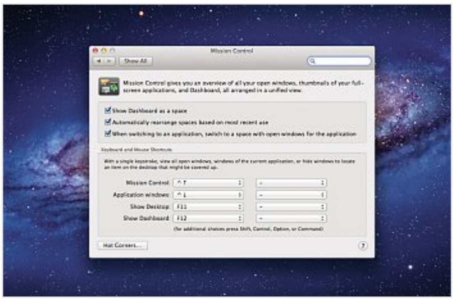
QUICK TIP

Within the Mission Control *System Preferences* pane is a 'Hot Corners' button (which also appears in some other panes). It can be used to trigger Mission Control, Application Windows and other commands when you move the mouse cursor into a corner of the screen.



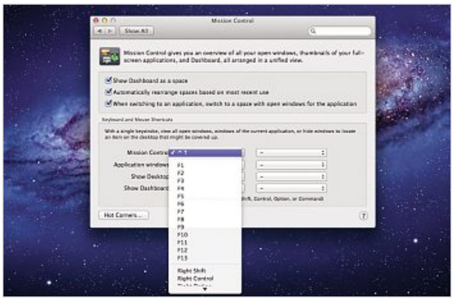
06 Move between desktops

To navigate between desktops and also full-screen windows and apps, enter Mission Control and then click on one. Alternatively, use the ctrl and ◄/► keys to move through the items in the order they're arranged in Mission Control (as per the previous step).



07 Configure Mission Control

Go to Mission Control's *System Preferences* pane. The checkboxes enable you to omit *Dashboard* from Mission Control, auto-rearrange 'spaces' (desktops) based on recent usage, and switch to a space with open app windows when you focus an app.



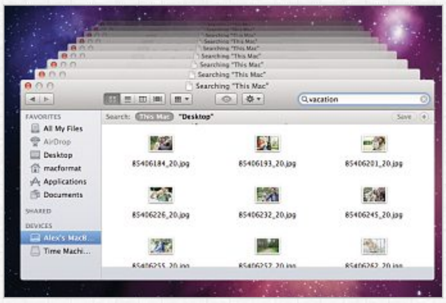
08 Adjust shortcuts

If you dislike the default shortcuts for Mission Control, Application Windows, Show Desktop and Show Dashboard, adjust them using the menus. If you've an Apple keyboard with media keys, the first three commands correspond to F3, ctrl+F3 and ⌘+F3. ●

Words: Matthew Bolton

Apple basics

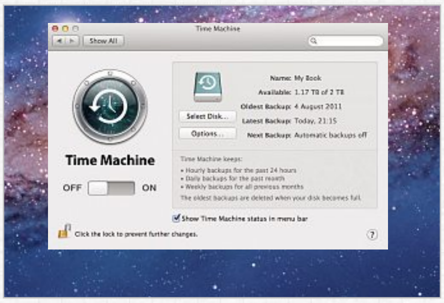
10 top tips for using Time Machine


Searching "This Mac"
FAVORITES
All My Files
AirDrop
Desktop
macformat
Applications
Documents
SHARED
DEVICES
Alex's MacB...
Time Machi...
Search: This Mac "Desktop"
Save
vacation
85406184_20.jpg
85406193_20.jpg
85406201_20.jpg
85406226_20.jpg
85406232_20.jpg
85406245_20.jpg

Search for something

By going back in Mac time…

01 If you need to find a file in your *Time Machine* backups, it's easy to do. Click the *Time Machine* logo in the menu bar, then choose 'Enter Time Machine'. You'll see a *Finder* window of your desktop, with others stretching back into the distance, each of which is a backup from the past. To look for files, use the Search bar in the top-right corner of the *Finder* window. Once you've searched, use the timeline on the right of the screen to go to backups further back.


Time Machine
Show All
Select Disk...
Options...
Time Machine
OFF
ON

Name: My Book
Available: 1.17 TB of 2 TB
Oldest Backup: 4 August 2011
Latest Backup: Today, 21:15
Next Backup: Automatic backups off

Time Machine keeps:
- Hourly backups for the past 24 hours
- Daily backups for the past month
- Weekly backups for all previous months

The oldest backups are deleted when your disk becomes full.

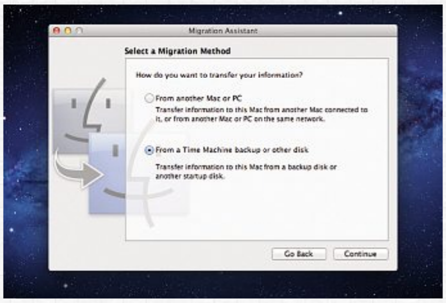
☑ Show Time Machine status in menu bar

Click the lock to prevent further changes.

Automatic backups

Let Time Machine do the work

02 Even if you have *Time Machine* switched off, you can still use it to back up using the menu bar icon. Click the icon, then click Back Up Now to perform a manual backup. However, it's best to enable *Time Machine*'s automatic backups. To set this up, go to Time Machine > System Preferences and switch *Time Machine*'s status to On. It will now automatically maintain backups of your content every hour for one day, every day for a month, and weekly beyond that.


Migration Assistant
Go Back
Continue

Select a Migration Method

How do you want to transfer your information?

○ From another Mac or PC
Transfer information to this Mac from another Mac connected to it, or from another Mac or PC on the same network.

● From a Time Machine backup or other disk
Transfer information to this Mac from a backup disk or another startup disk.

Restore from backup

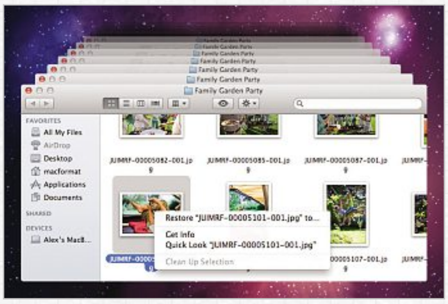
Make it just like it was before

03 If you want to restore your hard drive from a *Time Machine* backup, connect your *Time Machine* drive and then boot into Lion's recovery mode (or boot from your OS disc for an older version of OS X). Go to Utilities, select 'Restore System from Backup…', choose your *Time Machine* drive, then select a backup date to restore from. If you made a detrimental change to your Mac before the last backup, you can always restore from a state saved before that.

Choose a connection

And a suitable storage system

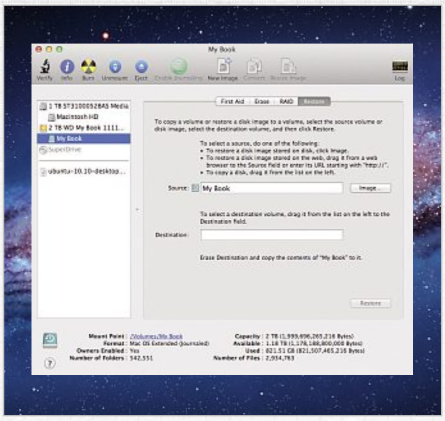
04 *Time Machine* can work over several different connections. USB is most common, and will be the cheapest kind of drive to buy, generally. FireWire 800 is around twice as fast as USB in terms of transfer rates, so it's definitely a good option if your Mac supports it. At the extreme end of the scale is Thunderbolt, which is phenomenally fast. Unfortunately, the drives that support it are rather expensive at the moment, especially if you want to back up multiple Macs. Finally, you can use *Time Machine* over Wi-Fi or Ethernet to back up to a Time Capsule (or third-party NAS drive, if *Time Machine* is explicitly supported).


Family Garden Party
FAVORITES
All My Files
AirDrop
Desktop
macformat
Applications
Documents
SHARED
DEVICES
Alex's MacB...
JUMRF-00005082-001.jp
JUMRF-00005085-001.jp
JUMRF-00005087-001.jp
Restore "JUMRF-00005101-001.jpg" to...
Get Info
Quick Look "JUMRF-00005101-001.jpg"
Clean Up Selection

Restore a file

Bring back files from the past

05 If you want to resurrect a file from your *Time Machine* archive, you can bring it to your current machine by selecting it and then clicking Restore in the bottom-right of the screen. This will put it in the same location on your machine as it was stored originally. If you want to put it in a different location on your hard drive, right-click on it and select 'Restore [Name of app] To…'. You'll be taken back to your current desktop and then given a *Finder* window, where you can choose a location to save to.



To copy a volume or restore a disk image to a volume, select the source volume or disk image, select the destination volume, and then click Restore.

To select a source, do one of the following:
- To restore a disk image stored on disk, click Image.
- To restore a disk image stored on the web, drag it from a web browser to the Source field or enter its URL starting with "http://".
- To copy a disk, drag it from the list on the left.

Source: My Book

To select a destination volume, drag it from the list on the left to the Destination field.

Destination:

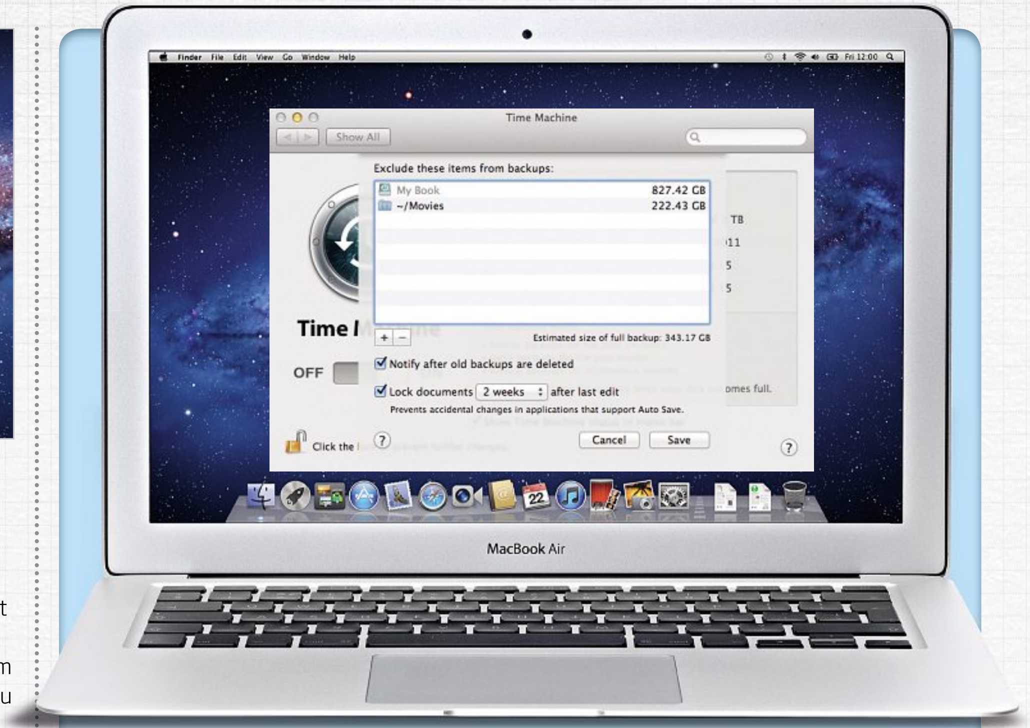
Erase Destination and copy the contents of "My Book" to it.

Mount Point : /Volumes/My Book
Format : Mac OS Extended (Journaled)
Owners Enabled : Yes

Move to a new drive

Give your backups extra room

06 If you want to upgrade to a bigger *Time Machine* drive – perhaps you edit a lot of video, for example – you probably won't want to lose your multiple backups from the time you've been using Time Machine. You can move and seamlessly switch to them using a new *Time Machine* drive by erasing and restoring a new drive from your old *Time Machine* drive. Open *Disk Utility* and select your new drive in the pane on the left, then click the Restore tab. Drag your *Time Machine* to the Source box, and the new drive to Destination. Tick 'Erase Destination' and then hit Restore. It's important to note that this will erase all data on the new drive, so make sure you don't have anything stored on there that you don't want to lose.



Exclude these items from backups:

My Book	827.42 GB
~/Movies	222.43 GB

Estimated size of full backup: 343.17 GB

☑ Notify after old backups are deleted

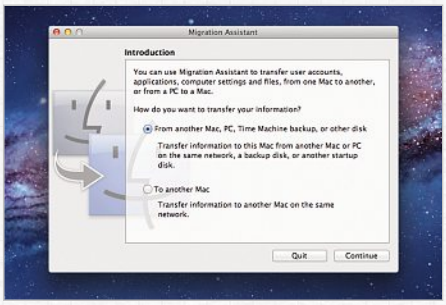
☑ Lock documents 2 weeks after last edit

Prevents accidental changes in applications that support Auto Save.

Exclude files from backup

Don't waste precious space on files you don't really need

09 If you're tight for space on your Time Machine drive, and have some large files (such as video files) that you don't need backed up to it, you can make *Time Machine* exclude those files. Go to System Preferences > Time Machine and click on Options. Click the + symbol to add something new, then browse to the file or folder you want to exclude. Once you've added it, you're able to see its size in the preferences window.



You can use Migration Assistant to transfer user accounts, applications, computer settings and files, from one Mac to another, or from a PC to a Mac.

How do you want to transfer your information?

● From another Mac, PC, Time Machine backup, or other disk

Transfer information to this Mac from another Mac or PC on the same network, a backup disk, or another startup disk.

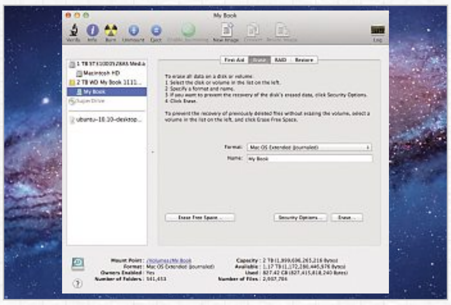
○ To another Mac

Transfer information to another Mac on the same network.

Migrate to a new Mac

Give your new Mac some déjà vu

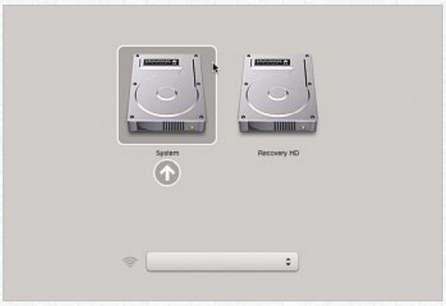
07 If you've bought a new Mac and want to seamlessly switch from your old Mac to the new one with all your files and settings intact, you can use *Time Machine* to migrate to the new computer. First of all sort your files and folders how you'd like them, perform a manual backup on the old machine, then eject and disconnect the *Time Machine* drive. Go through the new Mac's setup process until you get the option to restore from a *Time Machine* backup, then connect your new drive and follow the instructions.



Format your disk

Get your drive ready for backup

08 *Time Machine* only works with drives formatted in certain ways, the most common of which is Mac OS Extended (Journaled). If the drive you want to back up to is formatted in NTFS or FAT (or any other formats that aren't supported), you'll be prompted to erase the drive, but note that this will delete all of its data. You can format a drive yourself by using *Disk Utility*, selecting the drive, then going to the Erase tab. Select Mac OS Extended (Journaled) in the format Field, then hit Erase.



Emergency boot

Boot from a Time Machine drive

10 Should your hard drive go kaput, you can still work on your Mac. If you hold down the ⌥ key when turning it on, you can choose to boot from different volumes – and OS X Lion gives you the option to boot from an external *Time Machine* volume. This lets you access files and apps from a backup computer even if your Mac is misbehaving. Performance won't be as good when you're using an external drive, but it's a great option in an emergency, and provides a familiar environment to work in. ●

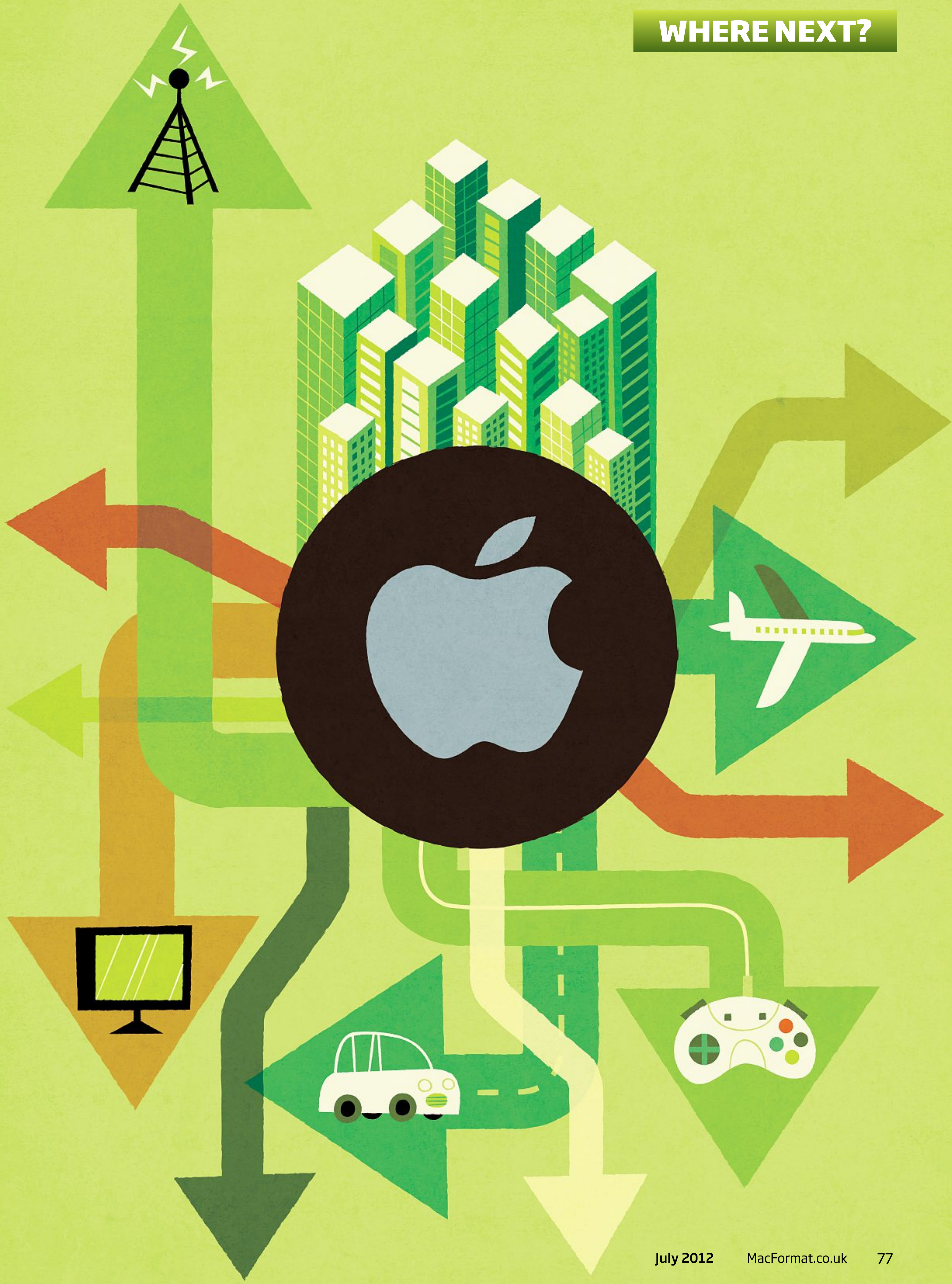
Words: Rob Mead-Green **Illustration:** Tim Bradford

Where next for Apple?

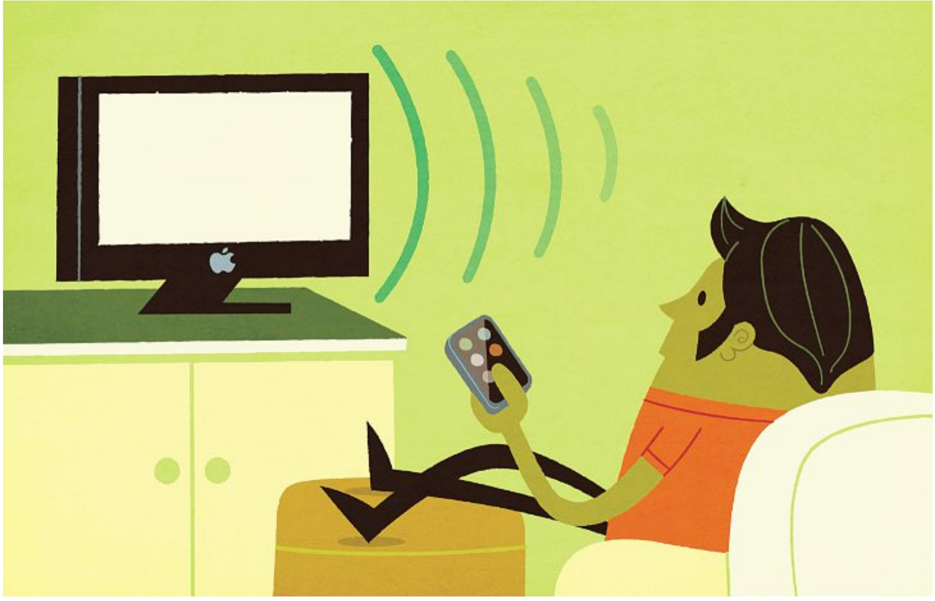
Our favourite Cupertino company is in its imperial phase – expanding, acquiring and outgunning the competition. So given that it's now so cash rich, where should it go next?

Thanks to the enormous success of the iPod, the iPad, the iPhone and the Mac, Apple is now at the most momentous point in its 28-year history. It's incredibly rich – richer than Microsoft and Google, and richer than some European countries. Still not convinced of its richness? Then how about this: at one point in summer 2011, it sat on more cash than the entire US government. Today, Apple has more than $100 billion in the bank and plenty of plans for the future. That's quite some war chest. The question is, what's it going to do with all that money? If you were Apple CEO Tim Cook right now, what would you choose to spend it on? We've come up with some ideas of our own…

With so much cash in the bank, anything is possible for Apple. What direction will they head in?



TV and Film



Before his death in October 2011, the late CEO Steve Jobs carefully laid out plans for a slew of new products that would keep the company ahead of the game for the next four years. But one of them is worthy of special attention, because it proves that Steve and Apple were both excited about creating disruptive products that would change entire markets, just as the company had with the iPod, the iPhone and the iPad. In one interview with his biographer Walter Isaacson, Steve Jobs said: "I'd like to create an integrated television set that is completely easy to use. It would be seamlessly synced with all your devices and iCloud… it will have the simplest user interface you can imagine. I finally cracked it."

Since then, the rumours surrounding the potential launch of such a TV – dubbed iTV – have reached fever pitch: TV makers from Samsung to Sharp have been named as possible partners, while in May, Apple's chief hardware maker confirmed (then almost immediately denied) that it was in the frame too. Most pundits believe that the TV – if it exists – will combine the features of Apple's existing 'hobby' set-top box, the £99 Apple TV, with controls that combine Siri-like voice integration with Microsoft Kinect-style motion capture, so you can change channels or change the volume using simple mid-air gestures.

> *"What will make Apple's TV different will be its integration with the Apple products you already own"*

Both Apple and Steve Jobs' interest in this area is perhaps not surprising. Apple already has much of the know-how, an established track record producing innovative, high-quality displays and, of course, has the iTunes Store and iCloud, which give it the ability to serve up huge amounts of TV and movie content via broadband. The idea of creating an integrated television set is also not that surprising: many TV makers – including Panasonic, Samsung and Sony – already give owners of their integrated 'SmartTVs' access to programmes, movies and interactive content via broadband internet connections. What will make Apple's own version different will be its integration with the Apple products you already own, along with a seamless, easy-to-use UI, based around iOS.

6. The Rhodes Not Taken

Glee, Season 1

Will thinks the glee club desperately needs more of an edge, so he brings in his former classmate, April Rhodes (guest star Chenoweth), to spice things up. Will's plan seems to be going smoothly until he realizes he may be losing a key member of the club. Musical performances include "Somebody to Love", "Maybe This Time", "Alone" and "Last Name".

Released 9/30/09

43 minutes

Fox

Apple's plans for the television sector probably involve set-top box and screen integration.

But there's arguably another bigger play Apple can make here, and you only have to look at Sony to see how it could work: it has its own record label (Sony Music Entertainment), its own movie studio (Sony Pictures), its own animation studio (Sony Pictures Animation) and a growing interest in TV broadcasting through Sony Pictures Television in the United States and elsewhere. It also makes a lot of broadcasting hardware, of course, but you can see where we're going here. If Steve Jobs was still alive you could easily imagine that some kind of tie-up or even takeover of Disney could be on the cards.

When we wrote about the launch of iCloud (Issue 243) and Apple's plans for its huge datacentre in Maiden, North Carolina, we also pointed to numerous rumours that Apple was already paving the way to become a major TV content provider. These moves appear to have gathered pace in recent months. In March, Business Insider reported that Apple was continuing to negotiate hard with programme makers and US cable TV providers to get programme content onto the Apple TV platform (http://read.bi/JHR22p).

Then Business Insider speculated that this would enable Apple to create channels for broadcasters inside the Apple TV user interface – something that already appears to be happening with ongoing talks about Apple and Disney over sports network ESPN (http://bloom.bg/JzVAuw). Apple certainly has deep enough pockets to make it even more attractive to programme makers.

LIKELINESS

HIGH

Telecommunications

Ever since Apple launched the iPhone in 2007, pundits have been speculating, if not predicting, that Apple will want to launch its own mobile network at some point. It's not hard to see why: using an iPhone or iPad on some mobile networks in the US can be a miserable experience, with patchy coverage and low data limits. Even in the UK, mobile networks have been covering the amount of mobile data you can consume before exorbitant charges kick in.

There has to be a better way, and Apple could be the company to provide it. It certainly has an interest in doing so: both the iPhone 4S and new iPad offer built-in support for LTE (aka 4G) networks, although coverage worldwide is not great or, if you're in the UK right now, non-existent. Apple is also at its best when it delivers the complete end-to-end solution; right now it has to rely on carriers to support its iPhone user experience and very often they're just not up to the task.

Apple could theoretically bid for a chunk of the newly available bits of the radio spectrum that will become available once the last analogue TV broadcasts are shut down later this year. The catch, of course, is that Apple would have to have the support infrastructure – mobile telephone masts and all the rest – in place to be able to do this, but there's no reason why it couldn't piggyback on an existing infrastructure. A good start here would be to buy one of the US carriers. Sprint is the most likely candidate, with its existing 3G network and WiMax 4G business, in the shape of Clearwire, which reaches 120 million people. Apple could spin off a data service of its own, providing a dedicated 4G offering for iPhone users while keeping Sprint's existing customer base. It's an idea that's certainly worth thinking about: imagine how easy it would be walking into an Apple Store to buy an iPhone and signing up to AppleNet!

AppleNet 4G
12:00
Friday
2
Messages
Calendar
Photos
Camera

LIKELINESS
MEDIUM

Games

Exciting though the prospect may be, the potential to enjoy even more programme content through Apple TV and other Apple devices only really tells half the story.

It's in the mobile gaming space where Apple has had the biggest impact: Nintendo's been repeatedly hammered by Apple in this field and even posted its first ever loss in April (http://bit.ly/Jyr3MF), due to lacklustre sales of the 3DS and rapidly declining interest in the Wii. Even Sony is struggling in the face of the Apple onslaught, with the launch of the PlayStation Vita receiving both a lukewarm welcome and, thus far, unconvincing sales to boot. In both cases, it's the enduring appeal of affordable titles like *Angry Birds* on iOS among casual gamers that are partly to blame for the relative lack of success in portable gaming for Sony and Nintendo. There's also the undeniable fact that with the iPhone and iPad Apple is giving users a killer combination of features, along with a seamless user experience and huge increases in display resolution and processor power.

If you own an iPad, you already know that it's easy to play games on the device through your TV using the Apple Display Connector. But the next logical step could see Apple embark on a TV-centred games console of its own – something that could either be delivered through game-playing capabilities inside the Apple TV set or via a separate box.

Another alternative would be to partner with a streaming games company such as OnLive or Gaikai, which runs the game in a datacentre and then streams the video to a dumb terminal under your TV. This would suit Apple's iCloud strategy while also removing the need for powerful hardware in the box itself.

There was a brief flurry of excitement in March this year when it was rumoured that Apple CEO Tim Cook had been to visit the HQ of Valve – makers of online gaming platform Steam – although this was swiftly denied (http://bit.ly/JzWeIF). However rumours persist that Valve is indeed working on a games console at its labs (http://bit.ly/JzWZ4d). But even if the story turns out to be totally wrong, you can bet that Apple is at least toying with the idea – no matter how hard it would want to avoid resurrecting memories of its last disastrous foray into gaming. Remember the Bandai Pippin?

Highscore 132070
Score 13460

Apple has already had massive success in the games sector thanks to its iOS devices.

LIKELINESS
MEDIUM-HIGH

The iCar

Ignition switched on
CD/Multimedia
Radio
Telephone
Navigation
Contacts
BMW Assist
Vehicle Info
Settings
TEL
NAV
MENU
RADIO
OPTION
BACK

The Beemer's iDrive system is powered by Microsoft. Imagine the possibilities if Apple was the driving force…

Anyone who has used *Find My iPhone* will know that iOS has the ability to pinpoint a location using a combination of mobile phone technology, Wi-Fi and built-in mapping software. Apple – and many third-party developers – use this information to tag your photos with geolocation data, and serve up all kinds of location-based services – like where your nearest Apple Store is, for example. This tracking technology isn't without controversy, of course (especially when it turns out companies are gathering information about you without you even knowing), but it may be particularly useful to Apple, since it gives the company a toehold into whole new areas of technology that it may wish to explore in future.

Last October, it acquired Swedish 3D-mapping company C3 Technologies, enabling Apple to combine its know-how with that of two previous mapping acquisitions, Placebase and Poly 9. Apple is ostensibly doing this to reduce its reliance on Google Maps – which it's expected to ditch in its iOS 6 update, due later this year.

Having a maps program of its own would also enable Apple to directly challenge third-party sat-nav makers like TomTom, which is increasingly doing deals with car manufacturers seeking to improve their own in-house sat-nav systems. The ability to offer its own mapping technology to third parties – especially car makers – could really be of interest to Apple. The huge success of the iPod and iPhone, and car makers' willingness to integrate support for them in their models, suggests Apple could be pushing at an already open door when it comes to providing easy-to-use navigation and entertainment functions, just as Microsoft did with its tie-up with BMW for its iDrive system.

There is also a chance that, given Apple's voluminous wallet, it could go much, much further. In Apple's own backyard, California, there are already a few enterprising car makers working on the Next Big Thing, thanks to the state's insistence on increasing the numbers of zero emission vehicles on its streets and freeways. It wouldn't surprise us in the least to learn that Apple has at least a watching brief on Tesla Motors – the producer of the first fully luxury electric sports-car.

Read the spec list of its Model S saloon (**www.teslamotors.com/models/features**) and you could almost be ticking off a wishlist for goodies you'd expect to see in your next iPad or MacBook Air: a high-res touchscreen; Bluetooth, Wi-Fi and USB connectivity; broadband internet access; mapping software; an entertainment system; and, of course, sophisticated power management and batteries – lots of them.

> *"It wouldn't surprise us if Apple has a watching brief on Tesla Motors – the luxury electric-car maker"*

Now the ability to build fast, efficient, user-friendly computers and the ability to build sprightly electric saloons may look like they should come from two very different disciplines (they do) but the lines of distinction are also quickly becoming blurred. We're all familiar with the notion of a car's on-board computer and engine management systems being important to how it runs. And we know that Apple could easily acquire the technology, expertise and patents it would need to create its own electric car fleet if it wanted to. And imagine a car whose entertainment and sat-nav system is synced with all of your iOS devices via iCloud…

It might sound unlikely to you right now, but Apple board member Mickey Drexler recently stated that it was Steve Jobs' dream to build the iCar. Look at what Google's doing with its experiments on self-driving cars that use its mapping and computing know-how; and who could ever imagine that a little record label that made its name signing the Sex Pistols would one day end up running trains and a fleet of transatlantic aircraft, or think about putting its high-paying customers into space?

Cupertino
5
miles
10
28

LIKELINESS

MEDIUM-LOW

Acquisitions

So far we've concentrated on will-they-won't-they intangibles surrounding certain kinds of content and services, but it's obvious that one of Apple's many virtues is that it's very careful about how it spends its money. In recent years it has indeed acquired companies and services – such as Lala and Chomp – that complement the services it offers to Apple users already. But it has also been buying up all kinds of hardware providers too – most notably semiconductor makers PA Semi and Anobit. This makes total sense: by reducing its reliance on third-party manufacturers, Apple can shield itself against potential shortages and other disruptions for essential components for devices like the iPad and iPhone. It also puts it in a much stronger negotiating position when it's dealing with the other tech giants it still relies on, such as Intel.

Buying up nascent hardware companies also gives it the freedom it needs to stay ahead of increasingly fierce competition. It's easy to imagine a scenario where Apple might want to buy up innovative hardware makers like Corning, which makes Gorilla Glass (**www.corninggorillaglass.com**) for the iPhone 4 and iPhone 4S, or Liquidmetal (**www.liquidmetal.com**), whose metal alloys are already used by Apple for the SIM-extraction tool and, potentially, for cases for the future generations of MacBooks, iPads and iPhones.

Even if it can't buy the manufacturing capability outright, waving a large cheque book around could certainly bestow exclusivity or even dedicated manufacturing plants. It's already rumoured to have invested billions of dollars in Sharp (**http://bloom.bg/JzZbJh**) to secure LCD displays for iPads and other devices, and regularly buys up huge chunks of the world's NAND flash production, much of it from Samsung. Given its wider consumer electronics and other ambitions – along with the woeful state of many CE companies' balance sheets – Apple could even embark on a wilder land grab if it wanted to: after four consecutive years of multi-billion-dollar losses, Sony could certainly benefit from a massive cash injection right now. But at its current valuation of around $40 billion (down from $100 billion in 2000), Apple could easily afford to swoop in and gain access to all of Sony's technology, manufacturing plants, movie and TV interests, high-street stores – and the PlayStation brand. The more cynical industry watchers might suggest Tim Cook wait a year and pick it up for even less…

LIKELINESS

MEDIUM

Brand extensions

One of the most satisfying things about being a top dog at Apple has to be seeing the fervour with which the company's fans – you and us – embrace everything the company does so enthusiastically. The obvious corollary of this is there must come a point where you start to think that almost anything you do will draw a legion of fans, provided the same high-quality rules, attention to detail and customer service apply. The Virgin brand is a case in point: it may have started out as a record label, but these days its name is attached to everything from mobile phone networks to broadband and TV services, rail services, airlines, holidays and even space tourism. So what's to stop Apple doing something similar?

We already know that Apple has applied to build a new UFO-like campus in Cupertino and that it now runs a restaurant just for Apple employees. Why not take these things to their (il)logical conclusion? The party city of Las Vegas could certainly stand to add a steel and glass iHotel, complete with blue-shirted waiters and bar staff and Mac-like slot machines. And we'd jump on an Apple Airlines aeroplane, complete with an iPad-based in-flight entertainment system, in a heartbeat. You can also already buy eau de MacBook cologne if you want to. Maybe Apple should launch a nationwide chain of high-quality fast-food joints, its own heady range of apple-based alcoholic beverages or its own private hospitals – although its slogan 'an Apple a day keeps the doctor away' might not go down too well with patients waiting major operations.

What we'd really like to see though is for Apple to launch its own Eve-style personal robots, based on the ones Pixar created for smash-hit movie *Wall-E*. It would not only be incredibly useful, but it would also seamlessly switch to Sarcasm mode whenever anyone questioned your choice of computing platform!

LIKELINESS

LOW (WE CAN DREAM CAN'T WE?!)

Q&A

● HINTS & TIPS ● TROUBLESHOOTING ● EXPERT ADVICE ● ESSENTIAL INFO

>> MEET YOUR Q&A EXPERT

Whatever your Mac-related problem, from misbehaving MacBooks to withering wireless, Luis Villazon can help.

>> ASK LUIS A QUESTION

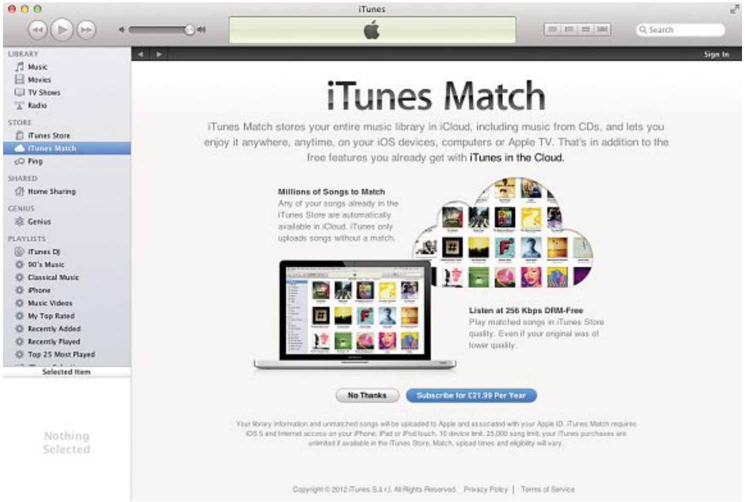
Got a problem with your Mac? Then why not send your queries to Luis at **macformat.helpline@futurenet.com** and see if he can help.

"Why won't iTunes match my vinyl collection?"

Q **I have a large library of tracks in my iTunes Library, many of which have been converted as AAC copies from old vinyl discs that I own. I subscribed to iTunes Match because I wanted to obtain better quality versions of these songs, which invariably suffer from the hisses, cracks and pops associated with vinyl. Unfortunately, of the 9,000-plus tracks in my Library, more than 2,000 have failed to match. These aren't obscure songs; a large number of Beatles tracks haven't been matched and some tracks from the same album are matched while others are not.**

I corresponded with the support team at the iTunes Store about this but the last message suggested that the issue "falls outside of [the advisor's] area of speciality" – this is really frustrating!

Bryan Thomas


iTunes
Search
Sign In
LIBRARY
Music
Movies
TV Shows
Radio
STORE
iTunes Store
iTunes Match
Ping
SHARED
Home Sharing
GENIUS
Genius
PLAYLISTS
iTunes DJ
90's Music
Classical Music
iPhone
Music Videos
My Top Rated
Recently Added
Recently Played
Top 25 Most Played
Selected Item
Nothing Selected
No Thanks
Subscribe for £21.99 Per Year
Copyright © 2012 iTunes S.à r.l. All Rights Reserved. Privacy Policy | Terms of Service

iTunes Match

iTunes Match stores your entire music library in iCloud, including music from CDs, and lets you enjoy it anywhere, anytime, on your iOS devices, computers or Apple TV. That's in addition to the free features you already get with iTunes in the Cloud.

Millions of Songs to Match
Any of your songs already in the iTunes Store are automatically available in iCloud. iTunes only uploads songs without a match.

Listen at 256 Kbps DRM-Free
Play matched songs in iTunes Store quality. Even if your original was of lower quality.

Your library information and unmatched songs will be uploaded to Apple and associated with your Apple ID. iTunes Match requires iOS 5 and Internet access on your iPhone, iPad or iPod touch. 10 device limit. 25,000 song limit; your iTunes purchases are unlimited if available in the iTunes Store. Match, upload times and eligibility will vary.

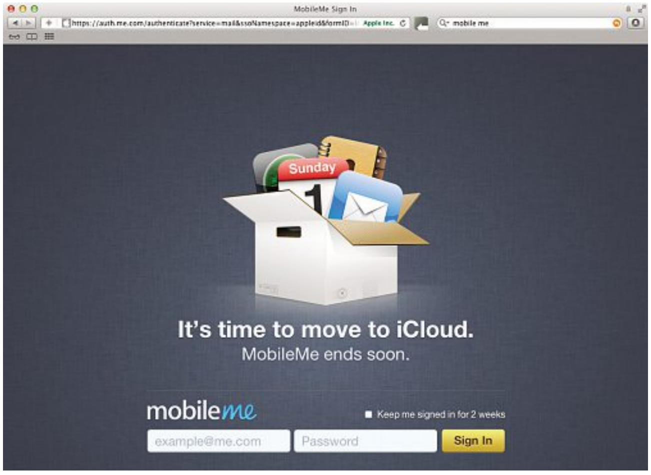
Judging by the letters we've received, iTunes Match isn't ready to be seen in public just yet.

A I've changed my mind about iTunes Match. When it launched, I put all those unmatched tracks down to teething troubles. Noisy tracks with pops and scratches that were copied from vinyl originals are bound to be harder to match than pristine CD copies, plus Apple probably just launched Match with an excessively strict algorithm, I reasoned. They would refine and tweak the ruleset over the next few months and the problem would melt away for all but the most esoteric music collections.

But I've had letters – a *lot* of letters – from readers like you with Match horror stories that defy reason. Well known, commercial albums from multi-million dollar selling artists are ripped from CD and some of the tracks will match and others will not. That's more than just teething troubles. It's broken technology.

To be fair, audio fingerprinting is a very difficult thing to do. We humans can hear a song on a CD and tell whether it's a cover or the original, whether it's live or a studio recording and whether it's from the original album or the 2009 anniversary box-set re-release. But that sort of pattern-matching is hard for a computer to do. Eventually, the technology to do this will be perfected but 'eventually' is a long time. Let's not forget, it took 17 years, from the release of the Apple Newton to the iPad, for a tablet computer to be perfected. My guess is that Apple's internal testing suggested that the matching was good enough to satisfy most people, and they probably decided to roll it out early and gradually improve it through subsequent upgrades. If that's the case, I think they may have been premature. If your music collection is large enough for iTunes Match to be a benefit, it is unlikely that it will match enough of your tracks to be useful. Cancel your subscription for now and check back in a few years' time.

MobileMe has gone but you can still keep your email address without subscribing to iCloud.


MobileMe Sign In
https://auth.me.com/authenticate?service=mail&ssoNamespace=appleid&formID=
Apple Inc.
mobile me
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mobileme
Keep me signed in for 2 weeks
example@me.com
Password
Sign In

It's time to move to iCloud.
MobileMe ends soon.

"What should I do now MobileMe has been turned off?"

Q I recently received an email from Apple informing me my MobileMe account was due to expire in July and suggested I sign into iCloud. I am unable to do this for the following reasons: iCloud requires OS X 10.7.2 and this requires a Core 2 Duo processor. Do I need a new email account and will I lose my current email address? If this is the case, can you recommend an email account compatible with Mac Mail running in OS X 10.6.8?
Anthony John Brookes

A By the time you read this, MobileMe will already have been turned off. But if all you need from MobileMe is an email address, you don't need to worry. When you migrate to iCloud, you can keep your existing me.com address and for any devices that can't be upgraded to iCloud you can go to **www.me.com/move** and you'll see an option to keep using your email. This essentially just keeps the mail component of iCloud (and only that component) on devices too old to support iCloud itself.

If you want to abandon iCloud completely, it's very easy to set up another email address with OS X *Mail*. See the three-step guide on page 87 for setting up Gmail, for example.

"Improving my Wi-Fi reception in an old house"

Q I live in a three-storey house with poor Wi-Fi reception. I currently have two broadband routers: one plugged into a phone socket on the top floor and one on the ground floor. However, I've found I cannot have both switched on at once. When my children are playing on the Xbox upstairs, I have to turn the downstairs router off, which means that I can't check my email or watch Netflix. Is there a way to have both on at once, or is there a more powerful, modem I could install on the middle floor, with a phone extension cable running up to the top floor or down to the ground floor?
Sasha Linden

A The reason you can't have two modems plugged in at once is because they have the same IP address. You could configure them with different IP addresses, but this still might not work because you only have one telephone number and broadband account. Each modem is attempting to sign in to your broadband account with its own credentials and whichever one gets there first will establish the connection. The second one is either ignored or will cause the connection to fail altogether, depending on the modem and how the network handles that sort of collision.

Running a phone cable from the master socket to the middle floor is also a really bad idea. The whole reason that broadband is much faster than an old-fashioned dial-up connection is because BT has managed to reduce all the sources of noise and interference between you and the telephone exchange. If you run 10 or 15 metres of ordinary extension cable, plugged into the socket with a regular RJ15 plug, you'll add a big chunk of that interference back in and you could easily halve your broadband speed.

In an old house, Wi-Fi signals don't propagate very well between floors because the floorboards have lots of big iron nails in them and there are lots of old iron water pipes and cables that reflect wireless signals. The best way around this is to run Ethernet cable between floors and use a wireless access point on each floor.

Thirty metres of Cat5e cable costs around £18 from **www.dabs.com**. Plug one end of this into your downstairs modem and run the other end up to the first floor landing. Plug that end into a cheap wireless router – the Buffalo Wireless-N NFINITI is only about £22. Now run another 30m cable from that router to the top floor and plug another NFINITI into the other end of that.

You don't really need the routing functions of the NFINITI on the top floor, but it will also function as a wireless access point and it is cheap enough not to be worth getting something else. Reducing the number of different manufacturers in your network is a good idea. In all, the total cost will be £80 and you should have Wi-Fi throughout the house.

»

Best feature, bar none

Ian Osborne

The menu bar in OS X was one of its most useful features. As well as giving access through the Apple icon to Mac services, such as *Software Update* and *System Preferences*, its app-specific drop-down menus and third-party menu items put most of your software's features at your fingertips. But are you getting the most from it? Here's a few things you might have missed.

Launch **System Preferences** from the **Apple menu** or the Dock, and open the **Desktop & Screensaver** pane. At the bottom, there's a checkbox labelled **Translucent menu bar**. When checked, your menu bar has that surreal see-thru quality that some love, but others hate.

System Preferences also lets you add and remove system features to and from the menu bar. For example, in the **Keyboard** pane, you can opt for a menu bar item that gives quick and easy access to the **Keyboard & Character Viewers**. Ideal if you forget how to use an umlaut or the Euro symbol. If you wish to switch to a foreign keyboard layout, in the **Language & Text** pane, select **Input Sources** and tick the ones you need, then swap between them by using the menu bar item. In **Displays**, you can add or remove an icon that lets you change your screen resolution, and if you use **Fast User Switching**, in **Users & Groups**' **Login Options**, you can set the menu bar entry as a long name, short name or icon.

If you want to rearrange your menu bar items, hold the ⌘ key (also known as the Apple key) and drag them into place. To remove one, drag it out of the menu bar. This works with Apple's own men bar items, but not all third-party application icons. If you want to remove those, open the app, access its preferences and look for a checkbox.

Many of Apple's menu bar items offer a secondary function, accessed by holding ⌥ (also known as alt) when you click on the icon. Take the Volume menulet: click on it without the ⌥ key pressed and you get a volume slider. With the ⌥ key pressed it gives a short menu allowing you to change between output and input sources, and gain access to the **Sound** Preference Pane. The Wi-Fi icon lets you select or switch between wireless networks, turn Wi-Fi on and off and access **Network** Preferences. With ⌥ held, it also gives in-depth information about your current wireless network.

Finally, there's the hidden menu bar items. With *Finder* to the fore, press ⇧+⌘+C to open a *Finder* window showing your hard drives. Now select your boot drive, and navigate to **/System/Library/CoreServices/Menu Extras**. You can activate menu items by double-clicking on the files suffixed '.menu', and remove them by holding ⌘ and dragging them out of the menu bar. Did you know you could eject an optical disc from a menu bar item? Double-click on 'eject.menu', and the feature is yours. ●

Ian told us he'd be spending a lot of time at the bar. Imagine our disappointment when all we got was this column...

»QUICK TIP

You can change the user name that appears on the OS X login screen by opening the **Users & Groups** preference pane, selecting the user account in the left-hand panel and changing the **Full name** field. This doesn't actually change the short user name, so your home folder isn't affected.

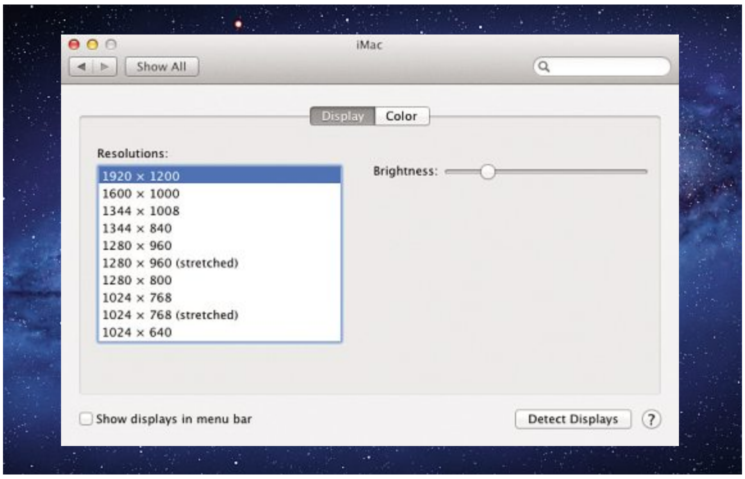
"Is OS X 10.7.3 causing my display issues?"

Q I have a mid-2009 Mac mini running FileVault 2. All was fine with 10.7.2. I rebooted my machine after installing 10.7.3 and heard the startup chime but got no display on the monitor.

It appears that my mini prevents the monitor from working when it is meant to be displaying the grey startup screen. I was able to boot into Rescue Mode by holding ⌘+⌥+R at the startup chime. I still do not get the grey startup screen but, after a while, the screen flickers and displays the Rescue Mode. I was then able to restart from a non-encrypted 10.7.2 clone. From here I cloned my FileVault 2 10.7.3 startup disk in the Mac mini to a spare un-encrypted external drive, disabling FileVault 2. The computer starts from this drive but I still don't see the startup screen although the login screen displays as normal.

I believe the reason I was unable to log in previously was because my startup disk was protected by FileVault 2 and I am asked to enter my password while the machine is still in the 'grey startup screen' mode – it's asking for my password, I just can't see it. By installing 10.7.3, have I also updated the firmware of my machine which could be causing this problem, or is it a hardware failure?

Keith Ellis



Resolutions:
1920 × 1200
1600 × 1000
1344 × 1008
1344 × 840
1280 × 960
1280 × 960 (stretched)
1280 × 800
1024 × 768
1024 × 768 (stretched)
1024 × 640

Brightness:

☐ Show displays in menu bar

If you see two entries for the same resolution, select the other to cure odd display problems.

A Some external monitors are showing duplicate entries in the list of supported resolutions in *System Preferences*. The default one results in a corrupted or non-functioning display and to fix it, you have to select the other (seemingly identical) entry for that resolution. This problem only appears to have surfaced with 10.7.3 and it only affects some external monitors. It may be related to display driver changes that Apple introduced with 10.7.3 in preparation for the move to ultra-high resolution Retina displays on desktop Macs. If the preference change works for you and the grey logo screen comes back, you can clone the external disk back to the internal drive on the mini and then re-enable File Vault.

"How do I connect my G4 PowerBook to a television?"

Q I would like to connect my 15-inch G4 PowerBook (OS X 10.5.8) to my Sony Bravia TV and I have bought a DVI to HDMI cable. My PowerBook recognises the TV, but nothing happens on the screen, even though I have tried all the possible resolutions.

Jean Darras

»MACFIXIT TIPS / Mail checking for new messages even when set to manual

Like many other email clients, Apple's *Mail* program can be set to only check for messages when you request it manually. This can be convenient if you prefer to avoid constant new-message alerts, or aren't connected to the internet and don't wish to get warnings about network problems.
But sometimes, even when set to manual, the program will continue to check for messages automatically.

Mail's default setting is to check for new messages once every five minutes, but you can change this to a different interval by going to the **General** section of *Mail's* preferences and setting the **Check for new messages** option to the desired interval.

One option in the menu is to manually check for messages, in which case you'll need to click the **Get Mail** toolbar icon to get new messages. But sometimes the system will continue to automatically retrieve them.
If this happens, you may notice it gets messages from some of your accounts and not others, indicating the setting is only working for specific accounts.

If you're encountering this problem, try the following:

1. Check for the IDLE command
In IMAP email accounts, the IDLE command is an option for pushing real-time updates to clients, and is a basis for many 'push notification' features of *Mail* accounts. The most common reason why the program will continue to automatically retrieve new mail is that this feature is enabled. So, if you disable automatic email retrieval, be sure to also disable this command. To do this for each of your accounts, select the account and then in the Advanced section be sure to uncheck **Use IDLE command if the server supports it**.

2. Remove account from automatic message retrieval
While the setting to disable automatic message retrieval should apply to all email accounts, you can also remove individual accounts. In the same tab as the IDLE command, uncheck the option to include each account when checking for new messages. Accounts should only be accessed if you click the **Get Mail** button in the toolbar.

Tips supplied by MacFixit.com

MACFIXIT TIPS / Flash update squashes active exploit

Check the version of Adobe Flash you have installed on your system, and if it's less than version 11.2.202.235, be sure to download the latest update that Adobe has made available (you can do this using Adobe's Flash version checker at **www.adobe.com/software/flash/about**). This update addresses a vulnerability in the program that is currently being exploited by malware developers to compromise systems.

Described as an "object confusion vulnerability," Adobe claims that the exploit allows an attacker to crash the Flash application and execute code that could potentially allow the attacker to take control of the system. In object-based programming languages, associated functions and variables in a running program are packaged together in what is referred to as an object, whose properties are defined as a "class."

In an object-confusion vulnerability, the object's class is changed so any objects defined by it are incorrectly interpreted and return incorrect values when run. These values can direct the program to execute arbitrary code stored in other sections of memory and thereby run the attacker's malware.

Currently this vulnerability is being exploited for people using *Internet Explorer* on Windows systems, but the vulnerability is not exclusive to Windows and could potentially be used to attack Mac users as well. Therefore, be sure to update your system to close this vulnerability and prevent any attacks, especially on any Windows machine, be it on a native Windows PC, or on an Apple system running Windows in Boot Camp or in a virtual machine.

Flash Player is included in Google Chrome and has already been updated for those who have it installed, but if you use alternate browsers (even in conjunction with Chrome), be sure to install this latest update.

The Flash update can be downloaded from Adobe at its Adobe Flash Player website (**http://get.adobe.com/flashplayer**). Adobe offers the update through its automatic update notifications for those who have Flash installed, but to avoid any confusion with potential malware (many of which use fake Flash offerings as a vehicle for distribution), you might consider getting this update only from the Flash website itself.

Tips supplied by MacFixit.com

A This might be the fault of your TV. There are a lot of reports on the AV forums about Sony Bravias of various models that mysteriously stop accepting HDMI input. For a few of them, a firmware update is necessary and there's an even smaller percentage that end up being sent off for a service centre repair. However most of them respond to a much simpler fix. Turn the TV off and unplug it from the wall. Wait 30 seconds, then turn it on and try again. If that doesn't help, you might need to reset the PMU on the PowerBook; search **apple.com/support** for "reset PMU" for instructions specific to your laptop.

That seems to have fixed the problem in almost every case I have come across. If you were to ask me why, I'd have to start vaguely waving my hands and talking about lock-ups on the HDMI controller chip in your TV. So it's probably better if you don't.

"Airport won't work: my laptop isn't wireless!"

Q Thanks for your answer to my printer/network problem in MF244 but you really didn't get the point. Unlike the iMac, my PC is not wireless enabled. Why else would I connect it to the BT Home Hub by Ethernet cable? Using an AirPort Express will therefore not work. Maybe you should try to set up a wireless Mac to non-wireless PC and printer network. I think this would very interesting for lots of non-techies like me, but I bet you don't do it.

Alan Wormwell

A Ok, my mistake, you're right; I assumed the laptop was wireless and that was incorrect. But actually, the solution I gave still works just fine. Plug an AirPort Express into the Home Hub and the printer into the USB port on the AirPort Express. Disable Wi-Fi on the Home Hub and let the iMac connect wirelessly to the AirPort Express. Your Compaq laptop can't connect wirelessly, but it doesn't need to. Leave it plugged into the Home Hub via Ethernet (the Home Hub 2 has four Ethernet ports) and let it get to the printer that way. The Airport Express won't mind whether you access the printer over a wireless connection or a wired one.

That's the medium-budget solution. The cheapest, as you mentioned in your letter, is to buy an affordable wireless printer and connect the laptop to it via USB as before. But I imagine that the £30 wireless printer you bought isn't as good as the printer you had before, so this may not be ideal. There is another, more expensive solution that might be preferable in certain circumstances. And that's to give your laptop a wireless connection. Of course, there are lots of wireless adaptors available that plug into the USB port of your computer. But the trouble with these is they require their own driver to allow the USB port to act like a network port. Any device that requires a separate driver increases the chances for things to go wrong – particularly on a Windows XP machine – so I prefer to avoid them wherever possible.

A wireless bridge, such as the Netgear WNCE2001, plugs into the Ethernet port on your laptop, so your PC thinks it is connected to the network with a cable. All the wireless stuff is handled automatically by the bridge and there are no drivers to worry about. It costs around £38, and you'll still need the AirPort Express for the printer, but it frees your laptop from the inconvenience of a tethered network connection.

»

The AirPort Express is the best way to share a non-networked printer, but it does assume you have a wireless connection.

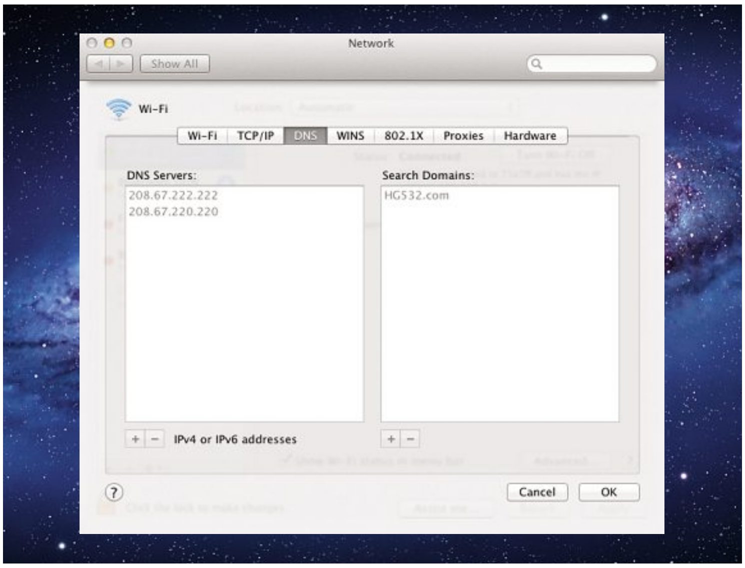
>> QUICK TIP

With OS X 10.7 and above, Click **File** in *Finder* and hold down ⇧+⌥. **Duplicate** changes to **Duplicate Exactly**, which preserves existing file permissions, instead of setting ownership to the user making the copy. This is handy for administrators editing other users' files.

"Software Update not working on my MacBook Pro"

Q I have a MacBook Pro running OS X Lion 10.7.3 that I manually updated using the combo update from the Apple website. The reason I updated was when I clicked on the Apple symbol for updates, the blue bar got to about halfway then stopped without following on. If this is then cancelled, sometimes with Force Quit, the whole computer 'hangs' for several minutes, sometimes needing a restart to get it going again. Repair permissions does not rectify this.

Derek Osmond



DNS Servers:
208.67.222.222
208.67.220.220

Search Domains:
HG532.com

If you can't access Software Update, it may be time to switch to a new Domain Name Service.

A For around the last year or so, there has been a weird – well, let's call it a glitch – whereby some ISPs fail to correctly resolve the address for Apple's Software Update server on their DNS servers. DNS (Domain Name Service) is the protocol that converts internet domain names to numeric IP addresses. It's a hierarchical system with every ISP running its own server that contains DNS information, which is received from higher-tier DNS servers around the internet. But ISPs also override some of the DNS entries on their own servers as well – to block access to illegal sites, for example. That doesn't mean the *Software Update* sites are being blacklisted, it's just to illustrate why ISPs might override the DNS table that's broadcast from above.

There's nothing to say that you have to use the DNS supplied by your ISP. There are quite good arguments for using one of the global DNS services instead. I use OpenDNS, for example, because it offers better security. Google has its own DNS service too. If you open System Preferences > Network and click Advanced > DNS, you can add a new DNS server address by clicking the + icon. Enter 8.8.8.8 for Google DNS or 208.67.222.222 for OpenDNS. Drag this entry to the top of the list (you can have more than one but the lower addresses won't be tried unless the top one is unreachable), then click OK.

The DNS table is cached locally, so you'll also need to flush the cache for the changes to take effect. Open Applications > Utilities > Terminal, and type dscacheutil -flushcache. Now try *Software Update* again. This time it should connect.

>> MACFIXIT TIPS / Apple reminds iWork.com users of impending closure

If you have Apple's *iWork* productivity suite and have been using Apple's iWork.com collaborative system, Apple has sent out another notice to remind users that this service will be cancelled on 31 July 2012. The service, which was always in a beta release status, was an attempt to provide an online storage and collaborative environment for *iWork* programs, similar to Microsoft's SkyDrive and SharePoint options for its suite of *Office* apps.

Apple's decision to shut iWork.com comes after the transition of its MobileMe service to iCloud, which provides an online syncing and storage option that is system-wide and usable by any program designed for it, and not only for a specific suite of tools.

Apple initially released a notice about iWork.com closing down in March of this year, and mentioned that any documents stored on the service would no longer be available after 31 July, 2012. As this date approaches, Apple is again urging people to access their accounts and remove their documents, and then use its iCloud service as an alternative to iWork.com.

Removing files from iWork.com is relatively straightforward, and just requires you to log into your account at iWork.com (this should be your Apple ID), and then go to the Shared Documents page followed by clicking the down arrow next to the documents you want to save. Next select the format of the documents (Office, iWork or PDF), and save them to the desired location on your computer.

This transition to iCloud mirrors a similar transition to this service from Apple's MobileMe online tools; however, while many of the MobileMe tools, such as calendars, contacts, and *Mail* will continue to work in iCloud, others will not. These so far include Apple's iDisk, the online photo gallery, and the .Mac website hosting service.

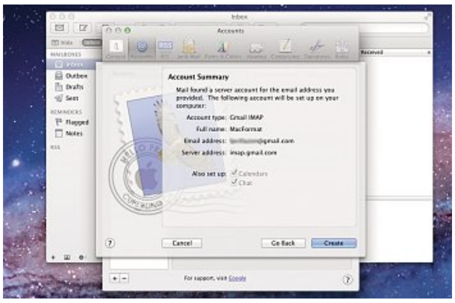
While the iWork.com beta is scheduled to end on 31 July, these MobileMe services will end a month earlier on 30 June, so be sure that, in addition, to iWork.com, you access your iDisk and remove any files you wish to keep, and do the same for your websites and photo galleries. Apple has a FAQ available for the transition from MobileMe to iCloud (**www.apple.com/mobileme/transition.html**) that should answer any questions about changes with the services.

Tips supplied by MacFixit.com

MacFixIt, founded in 1996 by Ted Landau, has grown into the premiere destination for users seeking resolutions to bugs and conflicts. Visit **www.macfixit.com** for the latest Mac information.

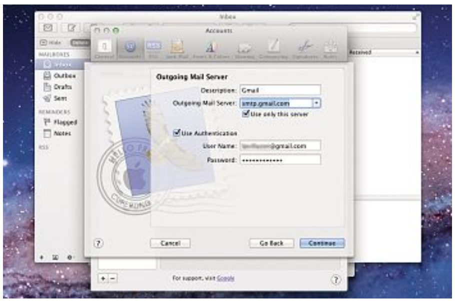
MacFixIt
Troubleshooting Solutions for the Macintosh

» HOW TO / Set up Gmail in OS X Mail

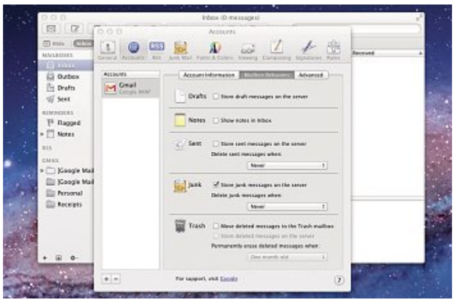

Account Summary

Mail found a server account for the email address you provided. The following account will be set up on your computer:

Account type: Gmail IMAP
Full name: MacFormat
Email address: [redacted]@gmail.com
Server address: imap.gmail.com
Also set up: ☑ Calendars ☑ Chat


Outgoing Mail Server

Description: Gmail
Outgoing Mail Server: smtp.gmail.com
☑ Use only this server
☑ Use Authentication
User Name: [redacted]@gmail.com
Password: ••••••••••••


Drafts ☐ Store draft messages on the server
Notes ☐ Show notes in Inbox
Sent ☐ Store sent messages on the server
Delete sent messages when: Never
Junk ☑ Store junk messages on the server
Delete junk messages when: Never
Trash ☐ Move deleted messages to the Trash mailbox
☐ Store deleted messages on the server
Permanently erase deleted messages when: One month old

01 Account type

Open *Mail* and click Mail > Preferences. Click + to create a new account. Enter your email address and password. Ensure Account Type reads **IMAP**. This is more useful than POP3 because messages are left on the Gmail server and can be synced with several devices.

02 Server settings

Set Incoming Mail Server to **imap.gmail.com** and Outgoing Mail Server to **smtp.gmail.com**. **Use Authentication** should be ticked. When you click **Create**, *Mail* will connect to your Gmail account and download the headers of any new messages.

03 Tweak Preferences

Open **Mail** > **Preferences** > **Accounts** > **Mailbox Behaviors**. Google suggests that you uncheck **Store draft messages** and **Store sent messages**. It's useful to store junk mail on the server, in case you need to look for a message that was erroneously flagged as spam. ●

"How do I print from my Samsung mobile phone?"

Q I have a Samsung Tocca Icon mobile GT5260, and I have an eMac running 10.4.11. I have tried to print photographs from my mobile, but nothing works. I also have an Epson Stylus SX415 printer. I have tried a memory-card reader, together with the memory card in the printer attached to the phone, also the card reader plugged into the eMac. The computer does not respond in any way. The card reader is Kodak A271 72-in-1 Card Reader. Do I need a new mobile?

Janet Foster

A Your phone has a microSD memory card and you should be able to plug this directly into your printer (with a microSD-to-SD adapter). If the printer says the card is empty, it's probably because you have been storing photos in the phone's internal memory, rather than the microSD card. On your phone, select My files > Manage > Move. Select your memory card and the photos will be copied across. Alternatively, if your eMac has the optional internal Bluetooth module installed, you could use Applications > Utilities > Bluetooth File Exchange and copy the files from your phone that way.

"Why not use a RAID array as a backup system?"

Q Regarding Lee Davison's quest in *MF245* for extra storage with a Time Capsule and backup, why not just plug a RAID 1 array into the Time Capsule? Anything on that is effectively backed up as long as you don't delete it by mistake. And if you are only using that drive for long-term storage rather than current work you are unlikely to make that mistake.

Ian Edge

A So you're saying to use a RAID 1 array of two disks that are plugged into the USB port of the Time Capsule (so that they can be accessed over the network), and then don't bother explicitly backing them up, but just rely on the mirroring of the RAID 1 array? I'm not very keen on this. RAID 1 provides protection against sudden catastrophic failure of only one of the drives in the array. It doesn't protect you against files that are corrupted before they are written or accidentally deleted. It also only protects you against drive failure that occurs as a result of a manufacturing defect in just one drive, or wear and tear that damages one drive before the other. Remember both drives are sitting in the same drive enclosure, connected to the same power outlet. Any drive failure as a result of overheating, power surge, flooding, house fire or burglary will affect both drives. The benefits of RAID 1 are mainly placebo. It's much better to have your external drives directly connected to your Mac, where they can use fast USB or FireWire connections and can be backed up directly to *Time Machine*. If you have a Time Capsule, that's even better because you can tuck it out of the way in another part of the house, on a high shelf somewhere.

For our Ten Tips on Using Time Machine to backup your files, or even use it as an emergency boot drive, turn to page 74. ●

Congratulations to Janet Foster on running a working eMac!

» QUICK TIP

Versions in Lion allows you to revert edits in a document. If you want to erase this history for a sensitive document, you can open *Terminal* and type **sudo rm -rf . DocumentRevisions-V100**. This might display an error message the next time the file is opened, but it's safe to ignore.

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Future

T3

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"We look at six leading brands of DAB radio with iPod docks. Which should you buy?"

GROUP TEST P112

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Ian Osborne
Tech Champion

You have an iPhone. You have a compact digital camera. You even have a mini DV device sitting at the back of your drawer, unused and unloved since the improved camera on your brand-new iPhone rendered it obsolete. So do you still need a camcorder? Ali Jennings takes a look at Panasonic's HC-V700 over on page 91, and he finds there's life in the old form factor yet. Modern camcorders are very small, yet incredibly capable, and as Ali discovers, the latest models are certainly feature-packed.

Rob Mead-Green covers a very interesting and unusual audio product. Fatman Mi-Tube is an amplifier featuring Bluetooth streaming and a distinctly retro vibe. Its new hybrid valve design uses a system that was first outlined in a theoretical paper 50 years ago. But can it do justice to today's technology? You can find out on page 93.

Over in the software section, British newcomer jdi Backup's *ZipCloud* service is reviewed on page 97, and Bohemian Coding's *Sketch 2.0* comes under the *MacFormat* microscope on page 99.

>> OUR AWARDS

Mac FORMAT Choice ★★★★★ A product that receives the MacFormat Choice award is the best in its class when reviewed.

Mac FORMAT Winner! Used in our Group Tests, MacFormat Winner indicates the product that we feel stands out.

RATINGS EXPLAINED: ★★★★★ Excellent ★★★★☆ Very good ★★★☆☆ Good ★★☆☆☆ Adequate ★☆☆☆☆ Poor

The ESP 3.2 is inexpensive, but certainly doesn't look cheap.

»MULTIFUNCTION PRINTER

Kodak ESP 3.2

£75 Cheap to run, but what does it print like?

KEY INFO

Manufacturer: Eastman Kodak
www.kodak.com

SPECIFICATIONS

Resolution: 9,600 dpi
Inks: Black, Tricolour
Paper capacity: 100 sheets
Dimensions: 41.9x31.5x17.8cm
Weight: 5.1kg

PROS & CONS

- ⊕ Cheap to run
- ⊕ Great remote print features
- ⊕ Solid photo printing
- ⊖ No AirPrint or PictBridge

VERDICT

★★★★☆

"Given the price and low running costs, the ESP 3.2 is great value for money."

Kodak has updated its entry-level ESP multifunction printers, with the ESP 1.2 replacing the C310, and the ESP 3.2 – reviewed here – retiring both the ESP C315 and the Hero 3.1.

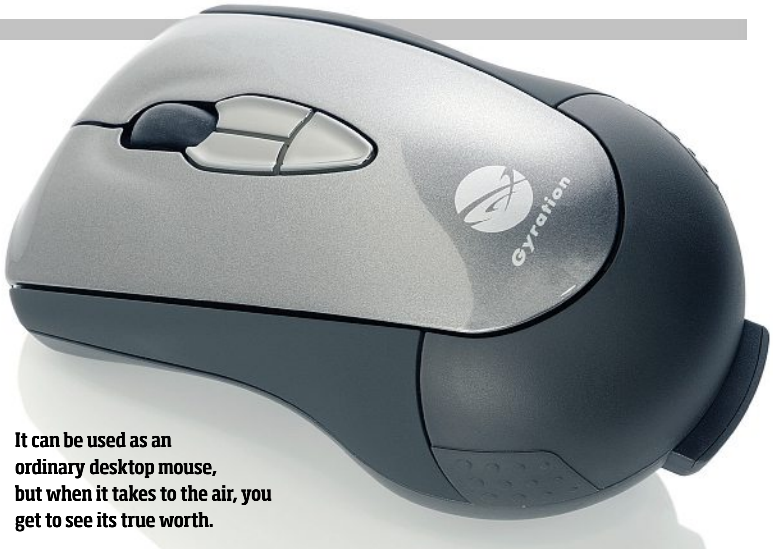
The ESP 3.2 offers faster speeds and better industrial design than its predecessor, and also adds some high-end features such as scan to email and a 2.4-inch touchscreen.

It has USB and Wi-Fi connectivity, and like all recent Kodak printers, it's Google Cloud Print compatible. Kodak's Email Print service lets you print attachments by emailing them to your printer, and although it doesn't have AirPrint, you can print photos from iOS devices using the free Kodak Pic Flick app. It's not PictBridge compatible, though it can print from most memory card formats, and there's no automatic Duplex. Kodak doesn't charge a premium on its inks to subsidise the cost of the printer so running costs are low.

Text prints aren't as sharp or vivid as you'd get from, say, a HP Officejet, and at 309 seconds for our 20-page test document, it's not as fast either. But photo-paper prints are solid and lively, and when printing images on plain paper, it doesn't over-soak the page like some in the Hero range. However it does use the same sheet feeder for all papers, so if you want to print 10x15cm photos, you have to remove your A4 paper first. Scanning is straightforward using the Kodak AiO Scan software.

Although an entry-level printer, the ESP 3.2's performance is good and it's excellent value for money.

Ian Osborne



It can be used as an ordinary desktop mouse, but when it takes to the air, you get to see its true worth.

»MOTION-SENSING MOUSE

Gyration Air Mouse Mobile

£59 Motion-sensing controller gets an update

KEY INFO

Manufacturer: Gyration
www.gyration.com

SPECIFICATIONS

Connectivity: Wireless, 2.4GHz
Range: 30m
Buttons: Six

PROS & CONS

- ⊕ Superb motion sensing
- ⊕ Feels comfortable in the hand
- ⊖ Takes practice
- ⊖ MotionTools has rough edges

VERDICT

★★★½☆

"Excellent motion sensing technology, now with Mac-compatible drivers."

Gyration Air Mouse Mobile can be used as an ordinary, everyday desktop mouse, but it's when you pick it up that it really comes into its own. It contains powerful motion sensors that can track its movement in your hand.

While holding the trigger on the underside of the mouse, your arm and wrist movements control the on-screen cursor. Releasing the trigger disengages the sensors so you don't move the pointer unless you want to. This motion-sensing technology was originally based on that used in Nintendo's Wii controllers, though it's evolved considerably since.

Although the form factor is the same as before, a few changes have been made under the hood. On the desktop, it now uses laser instead of optical technology. Its wireless connectivity has been beefed up, and its *MotionTools* driver software is now available for the Mac. The price has been cut too, down to £59 from £79.

With *MotionTools*, you can assign functions to its three programmable buttons, and also set up application-specific gestures activated by holding a button and swiping the mouse through the air. You can even summon OS X's built-in Keyboard Viewer for typing login details or passwords. Sadly, you can't set the mouse's in-air and on-desk sensitivity independently, so your chosen settings might prove a compromise.

It's easy to dismiss a device like the Air Mouse as a mere gimmick, but with practice it can prove very handy for presentations, media Macs or in situations where you don't have a flat surface for your mouse.

Ian Osborne

The HC-V700 has amazing image stabilisation, so no need to spend money on a tripod.

Photography: Gavin Roberts

>> COMPACT HI-SPEC CAMCORDER

Panasonic HC-V700

£500 Full manual control, 46x optical zoom, Full HD and small enough to fit in your pocket

The HC-V700 sits at the top end of Panasonic's 1MOS system consumer camcorder range, and packs in features that a year or two ago you would only have seen in models twice the price.

But the first real question is can a dedicated camcorder really stand up against the high quality footage produced by today's still cameras? The simple answer is yes: auto focus, image stabilisation, physical size and ergonomics are all finely tuned, and getting up and running is quick and simple without the need for rigs, manual focus and accessories that adorn the average DSLR.

The HC-V700 is a small compact camcorder with a large three-inch widescreen touch monitor, that's clear, crisp and easy to read. The touchscreen features are responsive and navigation through settings while filming is intuitive.

The HC-V700 features a wide 28mm lens with 21x optical zoom, which is extended through intelligent zooming to 46X. This is operated through a toggle lever on top. It's comfortable to use and the progressive zoom is smooth.

The newly improved O.I.S image stabilisation is impressive even at the maximum focal length, enabling you to shoot video without the use of a tripod. The camcorder stores its Full Progressive AVCHD 1920x1080 footage at 28Mbps on SD card; a 16GB card holds around 80 minutes.

> *"Can a camcorder stand up against the high quality footage produced by today's still cameras? Yes."*

For movie makers, full manual control over the shutter and aperture is essential, and the f/1.8 to f/3.5 lens gives the user a good amount of flexibility when it comes to controlling depth of field.

As with all Panasonic camcorders, the HC-V700 includes iA mode. This deals with the majority of settings for you, and in use as a point-and-shoot, the improved low-light performance of the sensor really shows, capturing good tonal graduation in both shadows and highlights. It deals well with changes in light levels and colour as you move, and the image stabilisation gives your footage a professional look.

Alastair Jennings

KEY INFO

Manufacturer: Panasonic
www.panasonic.co.uk

SPECIFICATIONS

Total pixels: 15.3 megapixels
F-value: F1.8 (wide)/F3.5 (tele)
Focal length: 2.82-59.2mm
Dimensions: 55x69x119.5mm
Weight: 270g (without battery)

PROS & CONS

- ⊕ Full manual control
- ⊕ Microphone input
- ⊖ Screen not great in sunlight
- ⊖ Non-standard shoe adapter

VERDICT

★★★★☆

"Has all the features you'll need, and its footage quality is hard to beat."

>> MEDIA PLAYER

Sumvision Cyclone Micro 3 8GB

£35 A perfectly portable digital media player

SUMVISION
CYCLONE
MICRO 3
8GB

Sumvision Cyclone Micro 3 is so small it can fit in your shirt pocket.

KEY INFO

Manufacturer: Sumvision
www.sum-vision.co.uk

SPECIFICATIONS

Video support: H.264, WMV, Xvid, MPEG1/2/4, AVI, MP4, MOV, M2TS
Audio support: MP3, FLAC, WMA

PROS & CONS

- ⊕ Broad connectivity options
- ⊕ Excellent file format support
- ⊕ Small and portable
- ⊖ Music player is basic

VERDICT

★★★★☆

"Cyclone Micro 3 puts in a performance that belies its inexpensive price."

Cyclone Micro 3 is a media player, not a streamer. You can't connect it to your home network or to the internet, but you can enjoy movies, music and photos from a USB drive, an SD card or the device's internal memory (stated as 8GB here, but available in capacities from 2GB to 32GB).

For HD viewing, there's an HDMI port (cable not supplied). You can also watch through composite video or your TV's aerial socket (cables included). Coupled with its very small size, it's ideal for taking on holiday, where you might not know in advance what connectivity your hotel TV has. It's powered from the mains or through a USB port, if there's one handy, and is FAT32-formatted out of the box. It won't recognise Mac-formatted drives, so for video files over 4GB in size, you also need Paragon's NTFS driver.

The Cyclone Micro 3's user interface and bundled remote are easy to use. It played every video format we threw at it (except DRMed iTunes movies) – even Video_TS folders ripped from DVDs. Folder trees are preserved, making navigation so much easier, and you can resume play on a part-watched video.

We've a few minor grumbles. Unless you clean-eject your thumb drive, resource files are displayed. The music player is a little basic, with no facilities to sort music according to factors such as artist or genre, and there's no means of copying from external storage to its internal memory. Even so, it comes highly recommended for those who want a media player but have no need for network or internet streaming.

Ian Osborne

>> USB AUDIO CONVERTER

Arcam rPac

£150 Improve your Mac's built-in audio output

The diminutive Arcam rPac is as easy on the eye as it is on the ear.

KEY INFO

Manufacturer: Arcam
www.arcam.co.uk

SPECIFICATIONS

Audio quality: Up to 24-bit, 96kHz
Freq response: 10Hz-20kHz
Signal-to-noise: 106dB (24-bit)
Outputs: 3.5mm phone, L/R RCA
Size: 100x62x25mm, 300g

PROS & CONS

- ⊕ Great sound, up to 24-bit/96kHz
- ⊕ Good looks and small footprint
- ⊕ Ready to go without drivers
- ⊖ Designed for a very specific need

VERDICT

★★★★½

"A no-compromise DAC for discerning music lovers, that performs beautifully."

While, for casual listeners, the Mac's DAC (digital-to-analogue converter) delivers decent enough quality via the headphone output, it's a low-cost solution, and one that's easily improved upon in terms of noise, jitter and overall fidelity.

Arcam's rPac is a small, solidly built aluminium box designed to do just one thing: deliver pristine stereo-audio output from your USB-connected Mac. At its core is the high-end Texas Instruments Burr-Brown PCM5102 DAC, and it employs asynchronous USB (running its own master clock, rather than passively waiting for the Mac to deliver data) to do away with jitter. No drivers are required – just plug it in and go – and the outputs comprise a headphone minijack and a pair of RCAs for connection to an amp/speakers.

The rPac is a massive step up from the Mac's built-in chipset. The detail and dynamics in acoustic material come through with accuracy and depth, while electric, electronic and bass-heavy styles gain coherence, weight and muscle. Of course, the more compressed your source audio, the less impressive the results – in fact, for low bit-rate MP3s, the ever-truthful rPac actually highlights top-end compression artefacts that the Mac chipset might smuggle through. However, with high bit-rate, losslessly compressed and uncompressed files, the results are stunning.

If you're serious about audio fidelity, the rPac is something you need to hear. Although, if you've never been particularly aware of anything being amiss with your existing output, it would be an unnecessary and moderately expensive luxury.

Ronan Macdonald

Orange
16:16
Chubby Checker
Let's Twist Again (Re-Recorded)
20 Greatest Hits - Chubby Checker
20 GREATEST HITS
Chubby Checker's Very Best
Mi Tube
by FATMAN
1
2

Pair the Fatman Mi-Tube with high-bit-rate digital music and give your ears a treat!
Photography: Gavin Roberts

» VALVE AMPLIFIER WITH BLUETOOTH

Fatman Mi-Tube

£199 This tiny, stylish retro amp combines old-school values with Bluetooth streaming

Fatman's mission is to marry upstart digital devices such as the iPod with vacuum tube amplifying technology, bringing both a much-needed boost in audio quality. What you get for the very reasonable online price tag of around £199 is a 28W-per-channel valve amplifier that can stream songs from your iPad, iPod, iPhone or other suitably equipped mobile device using Bluetooth.

Viewed from the top-down it's completely circular, with a translucent covering housing discreet valves for the amp 'electronics' as well as the left and right audio channels. Plug the amp into the mains and the valves give off a warm orange glow that's almost primeval in its appeal, like gazing at the leftover embers of a bonfire. On the front of the main vacuum tube there's a strip containing two glowing blue lights that flicker into life when music plays through each channel.

The Fatman Mi-Tube's front is pretty sparse aside from two conical controls. The one on the left lets you switch between Bluetooth streaming and the RCA phono audio inputs – handy if you want to plug in a CD player or other audio source. The one on the right is a simple volume control. On the back of the amp are the analogue audio inputs, plus a pair of chunky binding posts so you can hook up speakers using good quality cable (some of which is supplied).

> *"Plug the amp in and the valves give off a warm orange glow that's almost primeval in its appeal"*

Low bit-rate tunes streamed to any kind of amp will never scale the heights of audiophile delight, and there's a limit to how much a warm-sounding valve amp can do to ameliorate harsh-sounding artefacts in audio that's digitally compressed or just badly recorded in the first place. But feed it high bit-rate MP3s – Apple Lossless or even CD-quality tunes – and your ears will be filled with sweet-sounding vocals, melodious bass notes and an exciting, vibrant mid-range.

Team that with the warm glow from those valves and your own satisfaction from the Mi-Tube's price tag and you'll be very happy indeed.
Rob Mead-Green

KEY INFO

Manufacturer: TL Audio
www.fat-man.co.uk

SPECIFICATIONS

Max output power: 2x28w
Freq response: 20Hz-20Khz
Signal-to-noise: 86db
Dimensions: 18.3x14.5cm
Weight: 4kg

PROS & CONS

- ⊕ Small and attractive
- ⊕ Good price
- ⊖ Device has to stay near amp
- ⊖ Upscaling isn't great

VERDICT

★★★★☆

"Small and sensibly priced. Bluetooth is neat but has its limitations."

Words: Ian Osborne

» iPOD TRAVEL DOCK

STK SMC150 Speaker

£44.50 www.santok.com

01 Weighing just 907kg and with a stand that folds into a carry handle, STK's Travel Speaker SMC150 can't be faulted for portability. It can be powered by four AAA batteries or the mains, and there's a 3.5mm input for non-Apple audio players as well as an iPod/iPhone dock.

Unfortunately, audio quality is suspect. There's almost no stereo separation, and sound is flat and lifeless, with a tinny top and tiny bass. It's not a total disaster, but when you can get the superior Altec Lansing inMotion Compact considerably cheaper online, why bother?

VERDICT

★★☆☆☆

"Great for portability, but poor for sound quality. There are better speakers out there."

» PORTABLE HD

My Passport Studio 2TB

£230 www.wdc.com

02 Excellent build quality, gorgeous looks and 2TB of storage make this Western Digital hard drive stand out. It's an excellent match for Apple kit, and is Mac-formatted out of the box. It's not as slim as some units, but given its capacity, you wouldn't expect it to be.

In our *QuickBench* speed tests (MB/s), My Passport Studio 2TB achieved random read speeds of 9.372 and random write 14.345 under USB, with FireWire 800 ratings of 11.657 and 21.116 respectively. It's not cheap, but for a drive of this quality and capacity, it isn't overpriced.

VERDICT

★★★★½

"One of the best high-capacity portable drives to date. Fast, capacious, and good looking."

» BATTERY CASE

STK Power Case

£20.50 www.santok.com

03 This 1600mAh battery case promises seven hours of extra talk time, 18 hours of music or 265 hours on standby. In our tests, it took four hours to fully charge, and lifted a flat iPhone 4 to around three quarters full: a useful, if unremarkable, power boost. The optional wrist strap is commendable, though the MicroUSB charging cable fell to bits as soon as we plugged it in.

The STK Power Case isn't bad value, but if you spend a lot of time away from your charger, you might prefer to spend more money on one that lasts longer.

VERDICT

★★★☆☆

"Not the highest-capacity battery case, but decent value for money, if a little fragile."

» TRAVEL SPEAKERS

Otone Aporto

£27 www.otoneaudio.co.uk

04 What a clever idea: as well as the sound bar form factor shown here, the speakers can be detached from the central control module and used as satellites for improved stereo.

Connect to your desktop or notebook Mac through USB, or use the 3.5mm line-in for any audio device with a headphone socket. It can be powered via USB port or by four AAAs.

The Aporto gives a complete sound, but it's not very lively or intense – which isn't surprising considering its size. At the price it's good value for money, but don't expect audiophile quality.

VERDICT

★★★★☆

"Portable, well designed and cheap. Detachable speakers aid stereo separation."

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Create the ultimate slideshow
Get sorted with iTunes
Keep your media library organised
LATEST KIT REVIEWED
6 DAB iOS docks rated
HC-V700 camcorder
Kodak ESP 3.2 printer
AND MUCH MORE!
INVESTIGATED
REVIEWED
As good as Jobs?
A year with the new Apple CEO
Protect your Mac
Are you really at risk from malware?
Diablo III - at last!
After 12 years the sequel is here
Future

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>> SYSTEM UTILITY

WindowSwitcher

£2.49 The solution to a cluttered desktop?

KEY INFO

Developer: Guillaume Labarthe
http://windowswitcher.free.fr

REQUIREMENTS

OS: OS X 10.6 or later
Processor: 64-bit

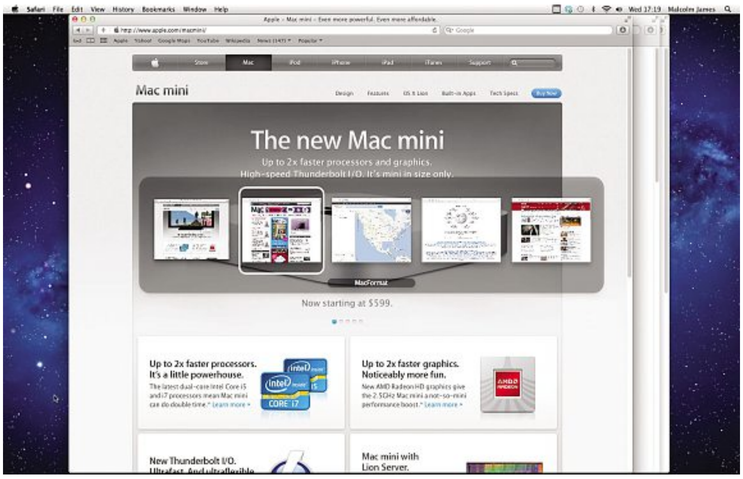
PROS & CONS

- ⊕ Very cheap
- ⊕ Lightweight and convenient
- ⊕ Easy to use
- ⊖ Doesn't work in Google Chrome

VERDICT

★★★★☆

"WindowSwitcher brings you one more keyboard shortcut closer to nirvana."


Mac mini
The new Mac mini
Up to 2x faster processors and graphics.
High-speed Thunderbolt I/O. It's mini in size only.
MacFormat
Now starting at $599.
Up to 2x faster processors.
It's a little powerhouse.
Up to 2x faster graphics.
Noticeably more fun.
New Thunderbolt I/O.
Mac mini with Lion Server.

Selecting an open window is as simple as changing apps with Application Switcher.

Every Mac user worth their salt knows you can press ⌘+⇥ to access the Application Switcher and quickly move between open apps. But what if you want to switch between windows within an application? There's Exposé, of course, but wouldn't an all-keyboard solution that's as easy to use as ⌘+⇥ be so much better?

WindowSwitcher is a lightweight and convenient utility that sells for just £2.49 in the Mac App Store. It lets you cycle between an application's open windows – including Inspectors and Style palettes – by simply pressing ⌥+⇥. It has no Dock presence, but if you set it to open at launch from its menu bar item, it quietly runs in the background.

Unfortunately, *WindowSwitcher* doesn't work in *Google Chrome*, but it's great for *Firefox* and *Safari*. It doesn't work in instant messenger app *Adium* either, though it plays nicely with *iChat*. It tabs between open email windows in *Outlook* and *Mail*, and in *Photoshop*, it cycles between open images but can include toolbars as separate windows. In productivity apps like *WriteRoom*, *TextEdit*, *Word*, and *Excel*, it works wonderfully. After pressing ⌥+⇥ to summon the list, you can't select an item with the arrow keys or your mouse, something we hope is addressed in a future release.

Training yourself to use ⌘+⇥ to cycle through open apps and then switch to ⌥+⇥ to toggle through your current app's windows is a snap. You soon wonder how you ever managed without *WindowSwitcher*.
Susie Ochs

>> AIRPLAY STREAMING UTILITY

AirServer 4.2.1

$15 (£10) Turn your Mac into an Apple TV

KEY INFO

Developer: AirServer
http://airserverapp.com

REQUIREMENTS

OS: OS X 10.4+ (10.6+ for mirroring)
Other: An AirPlay-capable iOS device running 4.2.1+, Wi-Fi network

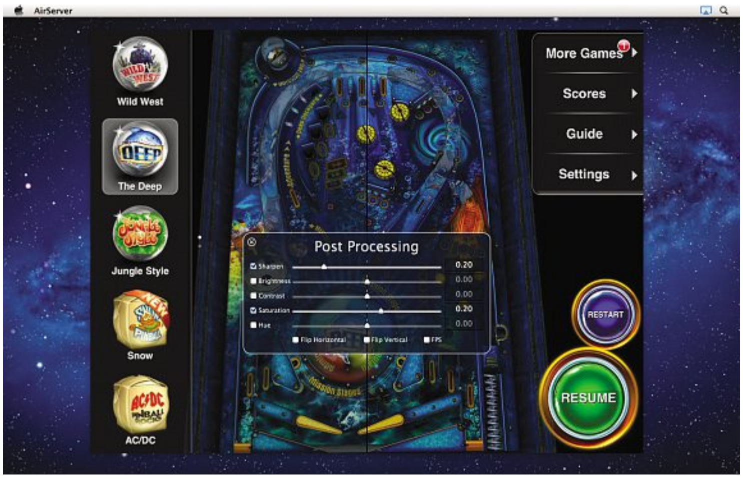
PROS & CONS

- ⊕ Straightforward setup
- ⊕ Works with a range of devices
- ⊕ Useful post-processing options
- ⊕ Can stream to a Mac from iTunes

VERDICT

★★★★☆

"Perhaps a little niche, but handy for anyone using a Mac in place of a TV."



Post Processing
☑ Sharpen 0.20
☐ Brightness 0.00
☐ Contrast 0.00
☑ Saturation 0.20
☐ Hue 0.00
☐ Flip Horizontal ☐ Flip Vertical ☐ FPS

AirServer's post-processing controls have a before/after split, helping with fine-tuning.

One new feature in OS X Mountain Lion is AirPlay Mirroring, for streaming what's on your Mac's screen to an HDTV via an Apple TV. Essentially, *AirServer* provides the exact opposite, turning your Mac into an AirPlay receiver. Once you've installed the software, you can stream video, audio, apps and games from any compatible AirPlay-enabled iOS device to a Mac.

AirPlay is one of those magical things about iOS, in the sense of working seamlessly and requiring little setup. Pleasingly, *AirServer* is similarly foolproof – it took us mere seconds to get it working post-installation. In AirPlay terms, sending media to a Mac from an iOS device is no different from sending media to an Apple TV – the only change is the destination name in the iOS device's AirPlay menu.

AirServer also provides options regarding the image shown on your Mac. Through OpenGL-based hardware-accelerated mirroring, the AirPlay window can be resized and post-processing options can sharpen graphics and saturate colours. *AirServer* is reliant on your network, but we found it generally outperformed our Apple TV, offering smooth playback and strong performance. The real question about *AirServer* is therefore practical: does it have a use? We can think of various business and educational uses, and we also admit playing iOS games on the Mac's screen can be fun. If your thoughts align with ours, you'll find *AirServer* ten quid well spent.
Craig Grannell

» CLOUD BACKUP SERVICE

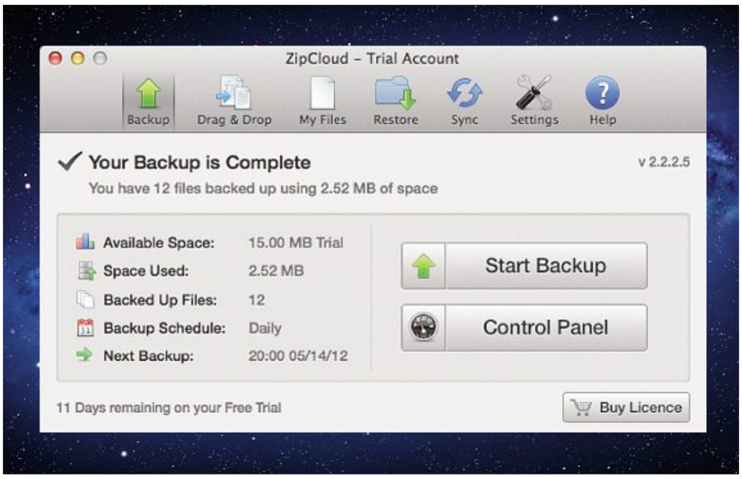
ZipCloud

Mac FORMAT Choice ★★★★★

£13 per month ZipCloud offers unlimited online storage and syncs documents between devices

Cloud storage services are all the rage at the moment, offering a seemingly endless supply of space that's secure, safe and accessible from anywhere there's an internet connection. But there are other, more modern methods of storing and organising information, such as using a wiki.

On the surface, ZipCloud is a simple cloud backup tool that takes files and folders on your Mac and back them up to remote servers. This is great for your data security as it gives you complete peace of mind from the most catastrophic failures of your hard disks. Even if your house burns down and your beloved Mac melts you'll not lose your precious pictures, movies and documents.



✓ Your Backup is Complete

v 2.2.2.5

You have 12 files backed up using 2.52 MB of space

Available Space: 15.00 MB Trial
Space Used: 2.52 MB
Backed Up Files: 12
Backup Schedule: Daily
Next Backup: 20:00 05/14/12

11 Days remaining on your Free Trial

The basic ZipCloud interface is clear and simple to navigate, giving you peace of mind.

ZipCloud is more than just a simple online backup utility however. There are excellent extra features that make the software extremely useful, and add value too. You can drag and drop files onto the ZipCloud interface to add them to the backup. This might sound like a small thing, but it's a nifty way of giving you extra sense of security with important files. No need to create a separate backup schedule for that all-important presentation to the boss – just drag it to ZipCloud.

> *"There are some excellent extra features in the ZipCloud service that make the software not only more useful, but add value too"*

File synchronisation is also a useful addition, allowing you to keep your files in order. This is handy if you have, say, a MacBook and an iMac and need to use your files on both machines. If you've used Dropbox or any of the similar options, you'll recognise the usefulness of this feature. By comparison to some of the online services, there's great flexibility with ZipCloud packages. A home account with 75GB of space is £8.95 for a simple ruling 30-day subscription, or you can go for a two-year plan that will cost you the equivalent of £5.95 a month. Even the premium account that allows for unlimited storage costs just £12.95 for a monthly subscription and again there are cheaper options for longer subscription plans. However, this is for just the one computer and you'll need to pay more to back up further Macs. At present there are discounted prices available too, making the service even better value.

The ZipCloud interface also deserves considerable praise for the simple and clean design. Clearly a lot of thought has gone into making the tedious process of backing up a little bit more user friendly. Backup utilities can be either too simple or staggeringly complex and ZipCloud manages to skirt the line between those two admirably.

That's not to say that the deeper control isn't there as ZipCloud has plenty of advanced features. You can exclude by file type (so you don't have to waste time and space backing up DMG or LOG files, for example). Also, there's control over bandwidth usage and how much CPU time ZipCloud will use at a given time. Naturally you also have control over the schedule and selection of your backup set. The online dashboard gives you a clear indication of your backup history, number of files and folders stored, and how much space you have left.

For a single backup solution, ZipCloud is a compelling choice. If you have multiple Macs then you might want to look at some of the other services from the likes of Crash Plan. However, ZipCloud pricing is very competitive and perhaps, most importantly, the interface is excellent. The software is easy to use and will have you backing up your data to the cloud in minutes and you'll know exactly what's going on at all times.

Christopher Brennan

KEY INFO

Developer: ZipCloud
www.zipcloud.com

REQUIREMENTS

OS: OS X 10.5+

PROS & CONS

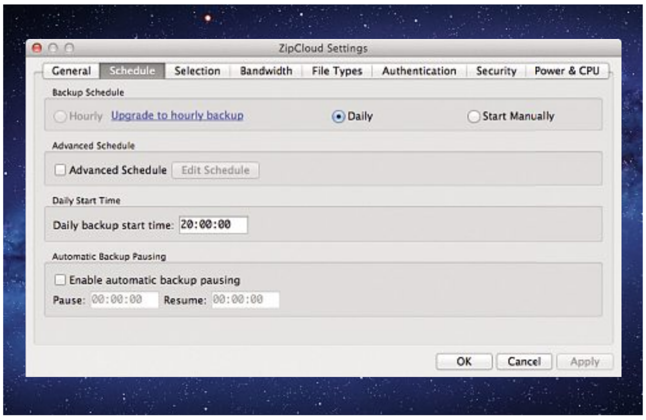
- ⊕ Excellent interface
- ⊕ Good schedule management
- ⊕ Silent backups and syncing
- ⊕ Drag-and-drop backup
- ⊕ Clear backup stats
- ⊕ Bandwidth management

VERDICT

★★★★★

"ZipCloud is a great backup solution and comes with a ton of useful features. Highly recommended."

For those who want deeper control of their backups, ZipCloud is a great cloud service.



Backup Schedule
○ Hourly ● Daily ○ Start Manually

Advanced Schedule
☐ Advanced Schedule

Daily Start Time
Daily backup start time: 20:00:00

Automatic Backup Pausing
☐ Enable automatic backup pausing
Pause: 00:00:00 Resume: 00:00:00

>> TEXT EDITOR

TextWrangler 4.0

Mac FORMAT Choice ★★★★★

Free One of the most powerful editors around

KEY INFO

Developer: Bare Bones Software
www.barebones.com

REQUIREMENTS

OS: OS X 10+

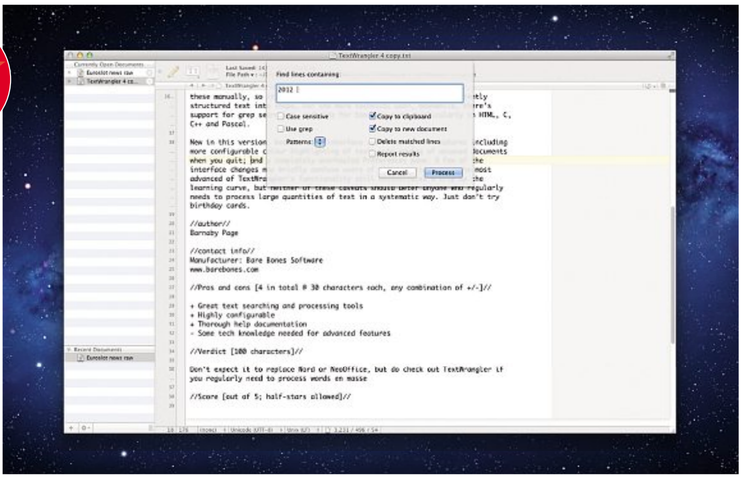
PROS & CONS

- ⊕ Great search and processing tools
- ⊕ Highly configurable
- ⊕ Thorough help documentation
- ⊖ Some tech knowledge needed

VERDICT

★★★★★

"TextWrangler is ideal if you need to regularly process words en masse."



Find lines containing: 2012

☐ Case sensitive
☐ Use grep
☑ Copy to clipboard
☑ Copy to new document
☐ Delete matched lines
☐ Report results

```
//author//
Barnaby Page

//contact info//
Manufacturer: Bare Bones Software
www.barebones.com

//Pros and cons [4 in total @ 30 characters each, any combination of +/-]//

+ Great text searching and processing tools
+ Highly configurable
+ Thorough help documentation
- Some tech knowledge needed for advanced features

//Verdict [100 characters]//

Don't expect it to replace Word or NeoOffice, but do check out TextWrangler if
you regularly need to process words en masse

//Score [out of 5; half-stars allowed]//
```

TextWrangler lets you extract all uses of a string from a long document and transfer them.

When we last reviewed this Swiss Army knife of a text editor, we emphasised that its role is to slice and dice words and spaces (and code) with great power and flexibility, not to produce finished documents. And none of the new features in v4.0 makes *TextWrangler* any more suitable for designing cute party invites.

You can write fresh words in *TextWrangler*, of course, but where it really comes into its own is in processing large quantities of existing text, thanks to some of the most powerful search-and-replace functionality around.

Want to look for all the lines containing a particular string, and copy them to a new document? No problem. Need to compare documents, look for duplicated text, or perform dozens of other jobs? *TextWrangler* takes all the pain out of doing these manually, so it's great for getting messy, inconsistently structured text into shape. For the more technical user, there are aids for handling code, particularly in HTML, C, C++ and Pascal.

New features include more configurable colour highlighting of text; auto-saving of unsaved documents when you quit; and an overhauled Preferences pane. A few of the interface changes may briefly confuse users of older versions, and the most advanced of *TextWrangler*'s functionality still necessitates a trip up the learning curve, but neither of these caveats should deter anyone who regularly needs to process large quantities of text in a systematic way.
Barnaby Page

>> PERSONAL WIKI SOFTWARE

Flying Meat VoodooPad 5.0.1

£16 Create your own personal Wiki

KEY INFO

Developer: Flying Meat Software
http://flyingmeat.com/voodoopad

REQUIREMENTS

OS: OS X 10.7

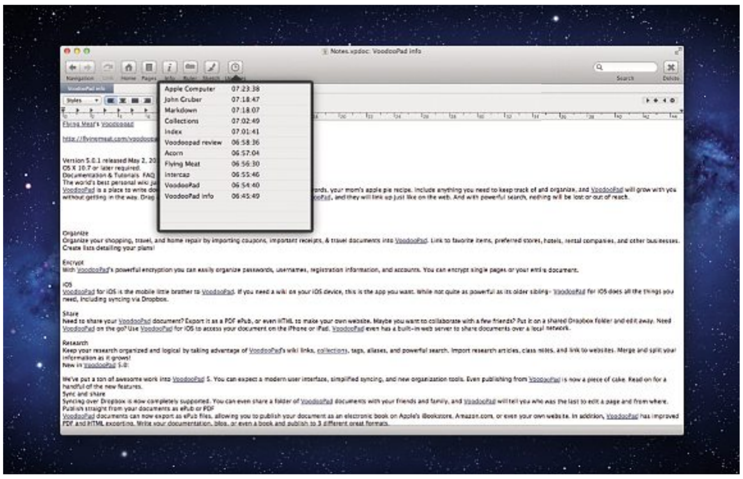
PROS & CONS

- ⊕ Powerful management
- ⊕ Good export options
- ⊕ Dropbox support
- ⊖ Can be a steep learning curve

VERDICT

★★★★☆

"For personal information management, VoodooPad is a great app."



Apple Computer	07:23:38
John Gruber	07:18:47
Markdown	07:18:07
Collections	07:02:49
Index	07:01:41
Voodoopad review	06:58:36
Acorn	06:57:04
Flying Meat	06:56:30
Intercap	06:55:46
VoodooPad	06:54:40
VoodooPad Info	06:45:49

VoodooPad lets you create a personal Wiki, and enables you to see a full history of changes.

There are many different ways of organising information, such as using a database or notebook application. However, there are other, more modern methods of storing and organising information, such as using a Wiki.

VoodooPad enables you to create pages, which can include text, images and more. If you feel that a word or phrase on the page needs further explanation, select it and hit the Link button, and *VoodooPad* creates a whole new page for you to expand upon that word or phrase. Once you've created a page, any time you type the associated word or phrase *VoodooPad* automatically links it to its page, and anyone reading can just click on the link to go to it.

Pages can have aliases, too; secondary words which also link to the same page. For example, if you have a page about 'Apple Computer' you can create an alias for 'AAPL' (Apple's stock market ticker code) and then every mention of that word will also link to the same page.

VoodooPad integrates with some of OS X's built-in software. For example, if you type a name that exists in your *Address Book*, *VoodooPad* automatically creates a link for that name, which, if you tap on it, lets you email that contact or open their *Address Book* entry. You can export your document, or individual pages, to a wide range of formats including HTML, PDF and even ePub, and you can sync documents across Macs via Dropbox.
Ian Betteridge

» VECTOR INTERFACE AND DESIGN TOOL

Bohemian Coding Sketch 2.0

£35 A new and efficient entry into the vector graphics space

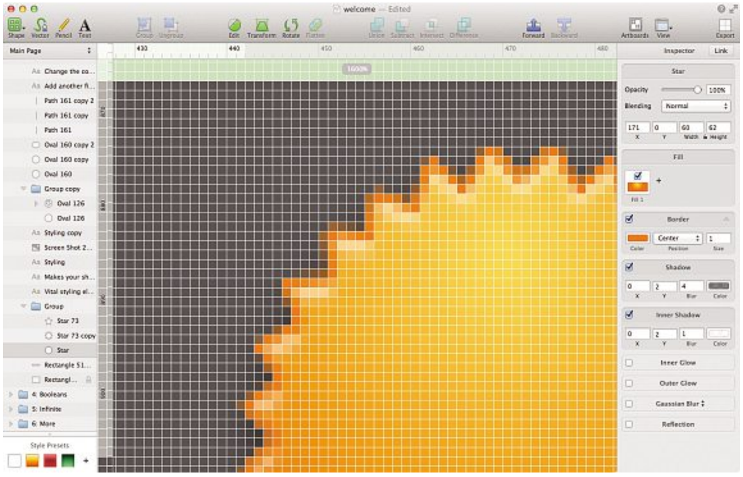
There are various approaches enterprising indie developers can take when trying to muscle in on the turf occupied by the industry's major players. One is to attempt to ape what's gone before, but with a fraction of the resources; another is to try to do something entirely new. *Sketch 2* goes with the ballsier tactic, and largely succeeds in creating a sleek and modern app for crafting vector graphics.

Although *Sketch 2* will doubtless appeal to some fans of *Illustrator* (and, to some extent, *Fireworks*), it's not trying to be an Adobe product, nor is it striving to be all things to all people. For example, it lacks the kind of interface flexibility and depth you'd expect from a component of *Creative Suite*; but what it lacks in terms of customisation and advanced tools, it more than makes up for in efficiency.

> *"Sketch 2 goes with the ballsier tactic, and largely succeeds in creating a sleek and modern app for crafting vector graphics"*

Rather than boasting a workspace comprising myriad fiddly palettes, *Sketch* instead offers a single-window workflow model. It's very approachable and usable, with common tools across the top, layers and objects in a panel to the left, and a contextual inspector to the right. The net result is that it's very quick – even for relative newcomers – to get to grips with the basics of the app.

The fundamentals of *Sketch 2* are largely what you'd expect from a vector drawing product. You get a canvas (which is infinite, although multiple artboards and pages can be defined) to which you add shapes and bezier curves. These can then be edited, styled and combined using boolean operations. Plenty of nods are made to screen-based user-interface design. For example, you can zoom in and view a pixel preview, and exporting is geared heavily towards modern devices, enabling you to optionally export @2x versions of any user-defined 'slice' – handy for Retina displays. Usefully, *Sketch 2.0* also enables you to trim transparent pixels during exports, which is just as well given that slices don't appear to snap to object edges.



Sketch 2's pixel preview lets you see how vectors will look when exported as a bitmap.

Tools are also provided for web designers. Style types are designed in such a way that they mirror CSS properties, and you can copy the CSS attributes from any on-screen item. With web design increasingly about creating layouts via the manipulation of CSS rather than exporting imagery, this is an excellent feature for anyone working in that industry.

Doodle bug

Sketch 2 does, however, have some downsides. Scrolling with our Magic Trackpad was erratic (although holding Space and click-dragging was fine), and we found various bugs and limitations littered throughout. The most irksome of these was perhaps inconsistency regarding the undo and union commands, the latter of which occasionally obliterated very small objects during attempts to combine them. Elsewhere, we also found applying effects sometimes moved items very slightly on the canvas. None of these quirks was a deal-breaker, although we did find ourselves instinctively relying more heavily on *Sketch 2*'s shapes rather than freehand drawing.

For its most likely target market, though, we have no qualms in recommending *Sketch 2*. As a product for working on interfaces for iOS apps and websites, it's excellent value for money, and the @2x export and Copy CSS Attribute features easily justify the price-tag. For illustrators without a geometric bent, we're slightly less gung-ho, but would nonetheless still suggest at least giving the 15-day trial version a go.

Craig Grannell

KEY INFO

Developer: Bohemian Coding

www.bohemiancoding.com/sketch

REQUIREMENTS

Processor: 64-bit

OS: OS X 10.6.0+

PROS & CONS

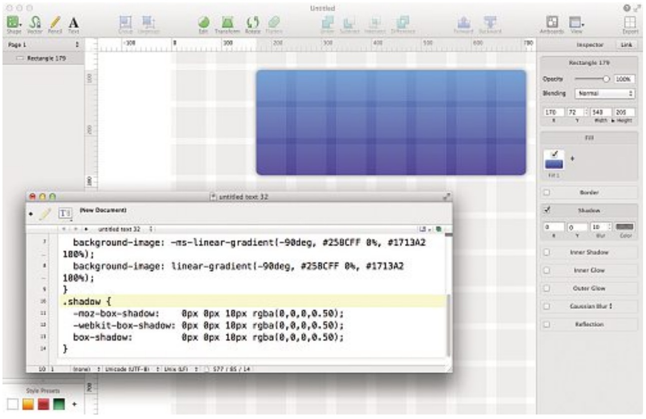
- ⊕ Highly intuitive interface
- ⊕ Solid, usable UI-oriented tools
- ⊕ Modern export workflow
- ⊕ Extremely useful web tools
- ⊖ Some freehand drawing issues
- ⊖ A number of bugs and quirks

VERDICT

★★★★☆

"Buggy but brilliant. An excellent investment for UI designers."

Being able to copy CSS attributes is a massive time-saver for artists doing web design.



```
  background-image: -ms-linear-gradient(-90deg, #258CFF 0%, #1713A2
100%);
  background-image: linear-gradient(-90deg, #258CFF 0%, #1713A2
100%);
}
.shadow {
  -moz-box-shadow:    0px 0px 10px rgba(0,0,0,0.50);
  -webkit-box-shadow: 0px 0px 10px rgba(0,0,0,0.50);
  box-shadow:         0px 0px 10px rgba(0,0,0,0.50);
}
```

>> VIRTUAL DESKTOPS MANAGER

TotalSpaces 0.9.9

£7.50 Bring grid Spaces back to OS X Lion

KEY INFO

Developer: Binary Age
http://totalspaces.binaryage.com

REQUIREMENTS

OS: OS X 10.7+ **Processor:** Intel

PROS & CONS

- Can define desktops for apps
- Works with full-screen apps
- Can disable transitions
- Support for trackpads

VERDICT

★★★★★

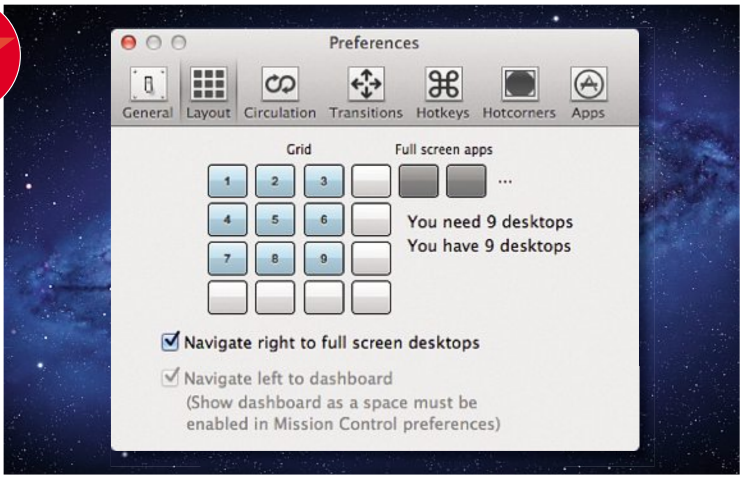
"A near-perfect add-on for more control over your virtual desktops."

Apple OS X Lion focused on bringing the Mac's operating system into line with iOS. One major change involved Spaces, the grid-based virtual desktop system, which was integrated into Mission Control and transformed into a more linear affair.

TotalSpaces returns virtual desktops to a grid. You can manually define anything up to a four-by-four layout, enabling full-screen apps and *Dashboard* to be navigated to from the top row. An overview screen is available to see thumbnails of all your desktops at once, and you can use this view to drag windows between desktops. But where *TotalSpaces* really becomes an essential login item is by offering plenty of additional configuration options. User-definable hot-keys and an optional five-finger swipe provide extra ways to navigate the grid. Circulation can be toggled for both horizontal and vertical wraparound navigation. OS X's desktop-switch transitions can be hijacked and changed or disabled entirely – a godsend for anyone with a large screen and motion sickness. Lastly, a dedicated 'Apps' pane provides the means to assign apps to specific desktops.

In use, we only had the slightest niggles, and our biggest concerns – better multi-monitor support, OS X Mountain Lion compatibility, and the ability to label desktops – will be dealt with in an update. But as it stands, *TotalSpaces* is highly recommended.

Craig Grannell



You need 9 desktops
You have 9 desktops

☑ Navigate right to full screen desktops
☑ Navigate left to dashboard
(Show dashboard as a space must be enabled in Mission Control preferences)

Nine desktops? In a grid? Madness! (Or, actually, more useful than Mission Control…)

>> iTUNES CONTROLLER

I Love Stars 4.1

£1.50 Rate tracks from the menu bar

Developer: www.potionfactory.com

Previously, *I Love Stars* did one thing very well, enabling you to rate the current *iTunes* track by clicking in the menu bar. This aspect of the app hasn't changed: you click to confirm a rating, and preferences are available to define system-wide shortcuts, whether you get an alert when a track's unrated, and genres that should be ignored.

This update adds a mouseover pop-up with playback controls, along with artwork and details about the current track. This isn't as fleshed-out as it should be (no system-wide shortcut or option for it to show for each new track), but it's a nice addition to a great app.

Craig Grannell

VERDICT

★★★★★

"The pop-up's a bit basic, but I Love Stars remains a first-rate add-on."

>> FOLDER CUSTOMISATION

Folders Factory 1.7

£2 Customise folders with ease

Developer: http://nice-apps.net/foldersfactory

Customising folders can be great for personalising a Mac and also making otherwise identical folders visually unique. *Folders Factory* provides a straightforward interface for various edits: images, stamps, text and texture. Stamp and Text copy the OS X system style, burning images into folders; the result is close but not quite identical to Apple's output.

Image and Texture enable you to place an image above or within the folder icon, respectively. Templates can be saved and 16 alternative folder types are available. Bar minor niggles like ignoring image alpha transparencies, we really liked this app.

Craig Grannell

VERDICT

★★★★½

"A very user-friendly and surprisingly powerful folder customisation tool."

>> CUT AND PASTE SHELF

DragonDrop 1.1.5

£3 Improve your drag and drop

Developer: http://shinyplasticbag.com/dragondrop

Drag and drop's great, right up until the point you accidentally let go of the mouse button and move myriad files to a random location. *DragonDrop* is an elegant solution to this problem: a shake of the cursor and its window appears, enabling you to drag your content (text, images, URLs, files and folders) to it. You then drag your content from the window to its destination at leisure.

It's a handy tool, albeit one that works better with a mouse or stylus than a trackpad, although you can also drag to the menu bar extra. The window's also limited to one space, but it can hold multiple items with a single drag.

Craig Grannell

VERDICT

★★★★½

"DragonDrop is an elegant and useful solution, but beware of its limitations."

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The final verdict on Siri
Vintage Apple products
Digital paint apps test
Choice highlights
Full Apple ID guide
Wacom Inkling on test

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Earn money with your Mac
Where Apple goes in 2012
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Choice highlights
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your Mac and iPad
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Choice highlights
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Infinity Blade 2 rated

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Get the best of the
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iTunes Match - is it
worth £22 a year?
Choice highlights
Get started with iBooks
Author, iDesire supplement

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Mountain Lion
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Choice highlights
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Master chat in Messages

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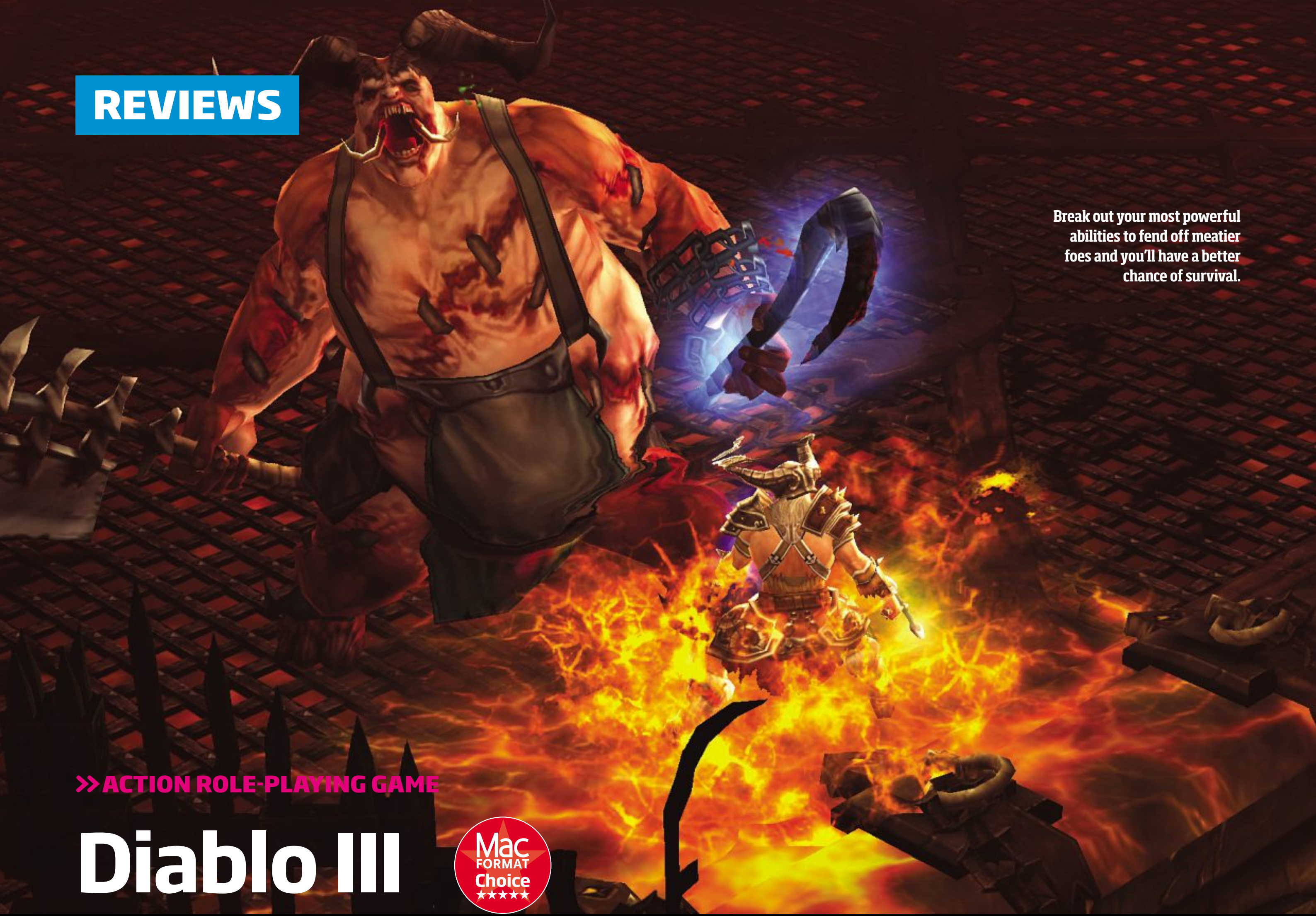


Break out your most powerful abilities to fend off meatier foes and you'll have a better chance of survival.

>> ACTION ROLE-PLAYING GAME

Diablo III

£40 Twelve years we've been waiting for this… TWELVE! It had better be bloody good

KEY INFO

Publisher: Blizzard

www.diablo3.com

REQUIREMENTS

OS: OS X 10.7+

Processor: Intel Core 2 Duo

RAM: 2GB

Video: NVIDIA GeForce GT 330M or ATI Radeon HD 4670 or better

PROS & CONS

+ Beautiful detailed environments
+ Gripping story
+ Grisly bad guys
+ Fun crafting and auction options
+ Multiplayer modes
− Combat is a little repetitive

VERDICT

★★★★★

"Despite a few early grumbles after launch, there is little doubt that Diablo III is stunning and diabolically addictive."

More than a decade has passed since Blizzard's *Diablo II* sent fantasy gamers' codpieces all a-quiver. And typically of the company that created *World of Warcraft* – the world's most successful massively multiplayer online game (MMO) – they've been in no hurry to launch *Diablo III* until they were absolutely certain they'd got it right. The question is, have they? The simple answer, despite the disgruntled wailings of a few annoyed customers, is a resounding yes.

When the game launched, there were, inevitably, problems with the servers resulting in a lot of players unable to play the game. What made it more galling perhaps is the fact that *Diablo III* has a complete and self-contained singleplayer mode, but Blizzard's digital rights management (DRM), requiring players to be online at all times, meant that even this was unavailable. Were we to provide separate scores for efficiency of launch, *Diablo III* would get a bit of a kicking. That said, with a release of this magnitude, problems were inevitable, and now that these hiccups are a distant memory, we can concentrate on the game itself.

Taking place once again in the land of Sanctuary, 20 years after the events of *Diablo II*, the story opens with a familiar character from the *Diablo* series. Deckard Cain and his niece Leah are going about their business in Tristram Cathedral, when an object falls from the sky and creates a massive glowing crevice in the ground. Cain falls in, much to Leah's horror, and all manner of foul creatures begin to plague Sanctuary.

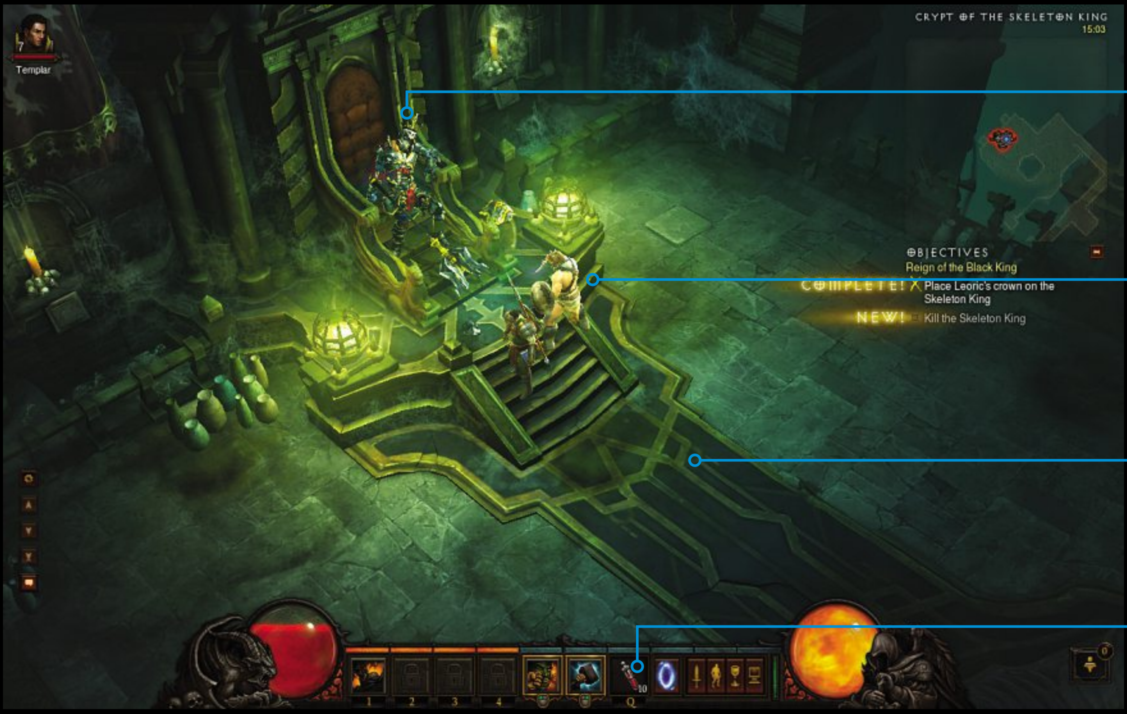
That's where you come in. At the start of play you find yourself in New Tristram and are very quickly hired by Leah to enter the catacombs of Tristram Cathedral in order to find her uncle and get to the bottom of what fell to earth, setting in motion this unfortunate chain of events. It's gripping stuff as you progress though the story, encountering NPCs like Leah and the wise Deckard Cain. You're gradually drip-fed information that pushes the thrilling narrative forward but also paints a colourful and vivid portrait of the world you've entered. However, first things first…

After pressing play for the first time you must choose your character class. There are five in all – some new, some variations on characters appearing in the previous games – and each delivers a pleasingly different skill set. The barbarian, for example, cleaves his way through the enemies using brute force and ignorance. The wizard on the other hand can use ranged magic attacks and teleport away from danger.

Sanctuary is an amazing-looking place, richly detailed, beautifully lit and populated by characters that are skillfully designed. And getting

> *"Sanctuary is an amazing-looking place, richly detailed, beautifully lit and populated by characters that are skillfully designed"*

QUICK LOOK / Diablo III's playing environment


Templar
CRYPT OF THE SKELETON KING
15:03
OBJECTIVES
Reign of the Black King
COMPLETE! Place Leoric's crown on the Skeleton King
NEW! Kill the Skeleton King

Skeleton King
Diablo III enemies are superbly designed, much like this regal, bony foe, the Skeleton King.

Team Diablo
As you progress you'll pick up followers who lend a helping hand.

Luscious scenery
The world of *Diablo III* is beautiful in a dank and foreboding way.

Tools of the trade
Populate this toolbar with potions and spells for quick access.

around is a breeze. There's lots going on in terms of wandering from place to place, managing your inventory, interacting with NPCs, fighting and so on, but every action is merely a click away. Intelligently placed gateways mean you're never more that a minute or so away from previously explored locations.

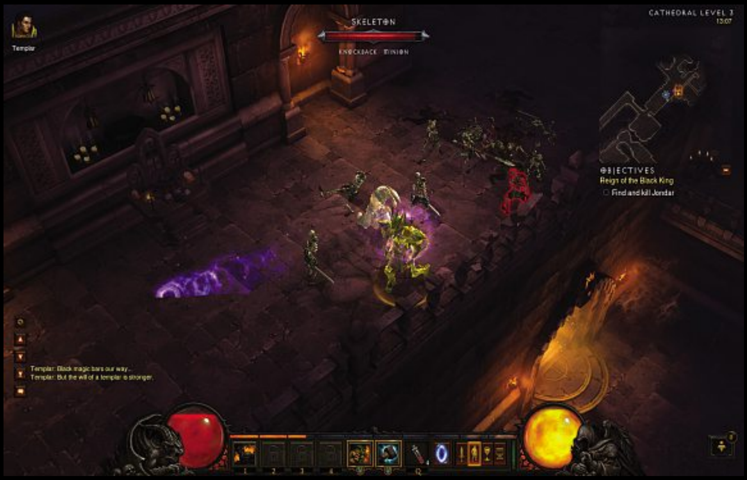
To mitigate any potential repetitive tedium when fighting Sanctuary's interlopers, characters have a range of attacks at their disposal, with more coming online as you level up. This means you can approach battles tactically, evading and flanking large groups of bad guys, stunning them, and rounding on the more threatening types with appropriate attacks.

As you find your way through Sanctuary's environments you'll also meet a number of characters who will handily offer their services to you. Hire them, and they will follow you around on certain quests. You're not able to control their every move, but they are fully rounded characters who can level up and take on inventory so you can manage their skills and equipment. There's also a trading element in the form of the auction house, where you can trade collected and crafted goods with other online players.

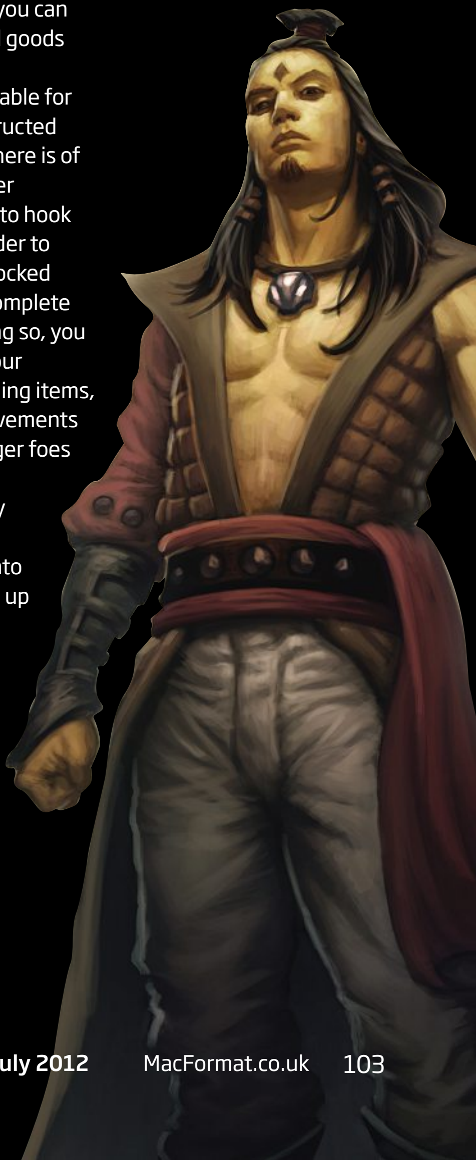
Although *Diablo III* is notable for its epic and expertly constructed singleplayer story mode, there is of course an online multiplayer element. This enables you to hook up with other players in order to explore any previously unlocked objectives or quests and complete them cooperatively. In doing so, you can form a party of up to four adventurers, chatting, trading items, sharing loot, gaining achievements and, crucially, facing stronger foes to compensate for the increased strength of party play. And it's a blast.

With everything taken into account, Blizzard has come up with a stunning offering in *Diablo III*. The richness of the storytelling in itself is something to relish. Add to that the accessible but at all times challenging and satisfying gameplay, and you have one of the most thrilling and more-ish role-playing games to come along in years.

Andy Dyer


Templar
SKELETON
KNOCKBACK MINION
CATHEDRAL LEVEL 3
13:07
OBJECTIVES
Reign of the Black King
Find and kill Jondar
Templar: Black magic bars our way...
Templar: But the will of a templar is stronger.

Combat against multiple enemies can get chaotic unless you apply the requisite tactical nous.



>> FIRST-PERSON SHOOTER

Serious Sam 3: BFE

£30 Experience some old-school ultra-violence

KEY INFO

Developer: Devolver Digital
www.steampowered.com

REQUIREMENTS

OS: OS X 10.5.8+
Processor: Intel Core 2 Duo 2.0 GHz
RAM: 2GB
Video: See site

PROS & CONS

⊕ Looks great on the right machine
⊕ Huge amounts of gore
⊕ Amusing melee moves
⊕ Network play
⊖ Brainless and tough

VERDICT

★★★☆☆

"There's something refreshing about this no-nonsense FPS."

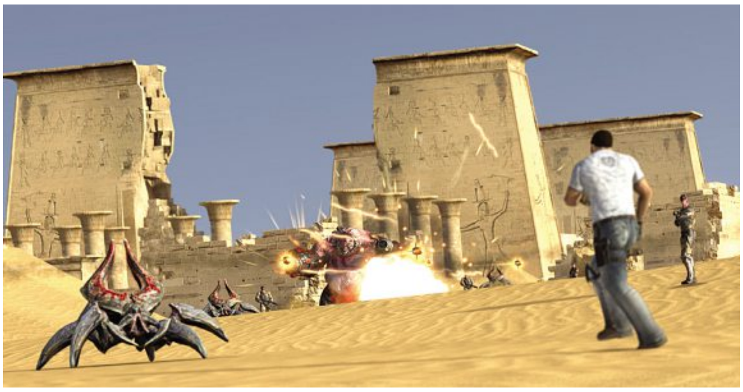
Maybe you like your first-person shooters with a bit of narrative flair and insist that they require brains as well as brawn. In that case, look away now. *Serious Sam 3* plays identically to the previous games in the series and that means an old-school emphasis on the joys of shooting and prolific amounts of gore.

The *BFE* of the title stands for Before First Encounter and alludes to the fact that this is a prequel to the original game. It takes place on Earth when little was known about the mad alien despot Mental and his plans to take over the world. So this marks the first time Sam Stone goes up against the alien hordes.

The environments you find yourself in are expansive and detailed, and there's lots of traversing between checkpoints. But most of this is merely scene-setting, with the quieter moments providing welcome respite from the set-piece battles. At regular intervals Sam finds himself in a key location where he is set upon by wave after wave of enemies and has to use every trick at his disposal to survive. This mostly involves running away a lot, then getting stuck into acts of extreme violence. As you might expect, there are plenty of weapons to turn on your foes, resulting in pleasing amounts of splatter. But Sam also has the option to use outrageous melee attacks, which result in a number of outcomes depending on the foe.

As well as the singleplayer campaign it's possible to set up network games where up to 16 players can work cooperatively or go head to head. It's enjoyable, but crude and tough on the higher difficulty levels. Be sure to read carefully the graphical requirements, as the game has its fair share of card glitches.

Andy Dyer



Egypt's an unforgiving environment to start with... chuck in alien invaders and it's a nightmare.

>> PLATFORM GAME

Jazz: Trump's Journey

£2.49 A cartoony romp through jazz history

KEY INFO

Developer: BULKYPIX
www.bulkypix.com

REQUIREMENTS

OS: OS X 10.6+
Disk space: 127MB

PROS & CONS

⊕ Beautiful visuals
⊕ Jazz soundtrack
⊕ Intriguing facts
⊕ Solid platforming
⊕ Delightful story
⊖ Too short

VERDICT

★★★★☆

"A rich, evocative journey that's as much about music as it is gameplay."

There's an abundance of creativity and originality in games development, especially in little independently coded iOS titles. Fortunately, thanks to the magic of the App Store a lot of them are being ported over to Mac. *Jazz: Trump's Journey* is a short but extremely satisfying platform game that takes the player through a sort of potted history of Jazz.

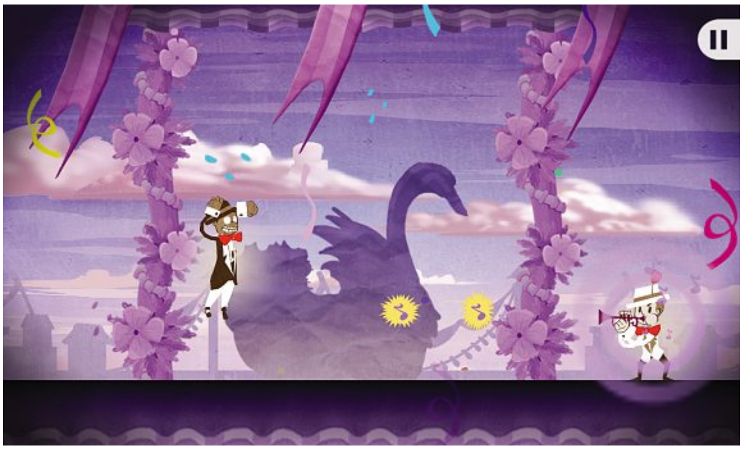
Trump, the game's protagonist, is a trumpet player – hence the name – who decides to fulfill his dream of being in a jazz quartet and making music by entering an upcoming jazz competition. In order to do so he has to find and recruit three other musicians: a trombonist, a double bass player and a banjo player.

This journey takes him through the streets of New Orleans, conjured up in a stylised and beautifully illustrated 2D environment, complete with cut scenes that flicker and scratch like an old celluloid movie print.

The action is accompanied by a pleasing Jazz soundtrack that evolves as the game progresses, with each new band member adding a new sound to the musical score. As for the gameplay itself, it's straightforward platforming stuff – jumping, pressing switches, dragging crates around – but made more interesting by the fact that Trump can freeze certain objects by blowing his trumpet. In this way, spinning and moving platforms and so on can be positioned advantageously.

While there are some tricky sections to it, the game is relatively short but this scarcely matters because while it lasts it's a delight. *Jazz* was crafted by someone with a genuine love for the subject matter.

Andy Dyer



For a trumpet player, Trump is a pretty agile little fella. And that trumpet is handy too.

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World of Apps

Reviews by:
Graham Barlow, Matthew Bolton, Andy Dyer, Tim Hardwick, Steve Jarratt

>> THE BEST iOS APPS HERE

Whether you've got an iPhone, iPod touch or an iPad, this is the best place to come to discover great new iOS apps and get the latest tips!

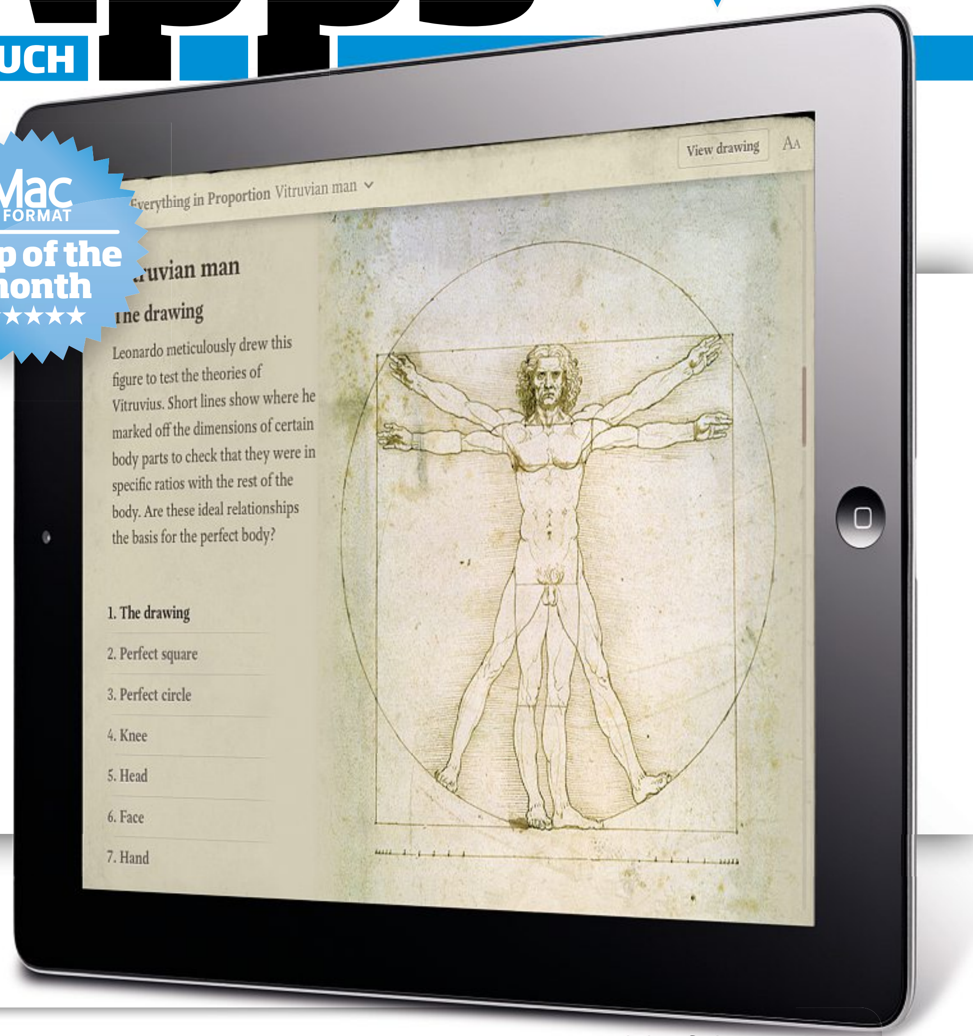
>iPAD >iPHONE >iPOD TOUCH

Mac FORMAT
App of the month
★★★★★

Leonardo da Vinci: Anatomy

Graham recommends: "This app presents all 268 of Leonardo's notebook drawings, scanned at high res to make full use of the iPad's Retina display. Accompanied by a biography, notes and video interviews, this is a rich and comprehensive collection. But it really is one for Leonardo da Vinci fans, and all those high-res images come as a hefty 1.7GB download.

Price: £9.99 **Works with:** iPad **Version:** 1.02



Everything in Proportion Vitruvian man

View drawing

ruvian man

The drawing

Leonardo meticulously drew this figure to test the theories of Vitruvius. Short lines show where he marked off the dimensions of certain body parts to check that they were in specific ratios with the rest of the body. Are these ideal relationships the basis for the perfect body?

1. The drawing
2. Perfect square
3. Perfect circle
4. Knee
5. Head
6. Face
7. Hand

Must-have apps

Our pick of the latest apps and games for you to try on iOS

LEGO Harry Potter

£2.99 The difficult years: 5-7

Developer: Warner Bros. Entertainment **Works with:** iPad, iPhone

After a lengthy hiatus, plastic Potter returns in this iOS remake of the Nintendo 3DS and PlayStation Vita game. Fans of the series will know what to expect: exploration, puzzles, collectibles and the occasional bit of combat, including new wizard duels, all wrapped up in gorgeous visuals.

LostWinds2

£2.49 A game for all seasons

Developer: Frontier Developments **Works with:** iPad, iPhone

As one of the first WiiWare games, *LostWinds* was ideal for the touchscreen on iOS, enabling you to use gestures to control the movement of air, fire, water and so on. This much improved sequel benefits from varied, beautiful graphics with changing seasons, better power-ups and a longer quest.

Paper by FiftyThree

Free (in-app purchases)

Developer: FiftyThree Inc **Works with:** iPad

There are lots of apps that imitate the act of drawing and painting, but *Paper* stands out because of its novel presentation (you can flick through different sketchpads) and a wonderful ink engine that recreates natural media such as watercolours. The app is free but you do need to pay for additional tools.

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INSIDE EACH ISSUE:
› The latest essential apps and games
› New kit for iPhone, iPad & iPod touch
› Learn to use your device with our guides

›› VIDEO ANNOTATOR

ScreenChomp

Free Encourage kids to digitally doodle on their homework

Developer: TechSmith Corporation **Version:** 1.3 **Works with:** iPad

ScreenChomp is a video annotation-sharing app, aimed at the iPad education market. With a cartoon-style interface and fun, yellow alien characters, it's aimed at young kids. It enables them to record sketches as video files with audio voiceovers to share with others – like an educational *Draw Something*. However, the meagre range of brush settings and palettes means the subtlety with which you can draw is limited. Also, an art app with no 'undo' seems bizarre.

VERDICT
★★★☆☆
"A fun and simple way for kids to annotate their work."

›› MUSIC MAKER

Figure

69p Construct beeps and bleeps, then drop the bass

Developer: Propellerhead **Version:** 1.0 **Works with:** iPhone, iPod Touch

propellerhead

Figure is a simple package for composition on the go. Every tweaking tool is a couple of taps away, and the input panels make inputting notes and beats slick and satisfying. Drum kits, basses and leads can be broken down into different beat patterns, which makes generating tunes easy. Sadly there's no scope for importing, exporting, or even saving. It's a brilliant and recommended toy, but look at *Kaossilator* if you want more from your fingertip compositions.

VERDICT
★★★★☆
"Figure isn't a pro tool, but then it's really not meant to be."

›› PRE-SCHOOL TEACHING AID

Funimals Phonics

£1.49 An animated, interactive A-Z of phonemes

Developer: School of Happy **Version:** 1.0 **Works with:** iPhone, iPod touch, iPad

Funimal Phonics

Aimed at introducing letters and how they sound to pre-schoolers, *Funimals Phonics* is an illustrated and interactive A to Z. Tap on letters and words to hear them spoken by an animal. The cartoon graphics look great, but some animations are more fun than others (such as making the hippo ballerina jump) and these can steal your child's attention. However it's effective in capturing the imagination of children and will help to teach them their ABCs.

VERDICT
★★★★☆
"A helpful word recognition tool for your pre-schooler."

›› NOTE-TAKING APP

Drafts

69p You'll want to take note of this app

Developer: Agile Tortoise **Version:** 1.0.1 **Works with:** iPhone, iPod touch

Drafts is much smarter than the default *Notes* app. It even second-guesses how you think: if the app's been dormant for a while, it anticipates that you want a new document; switch back sooner, and you'll continue working on your previous note. There's a live word and character count: the latter turning red if you breach Twitter's 140-character limit. Send notes to Twitter clients, email, the clipboard, and apps that accept text files, such as *iA Writer* and *GoodReader*.

VERDICT
★★★★☆
"Great for anyone who needs to jot down and share ideas."

Apps round-up

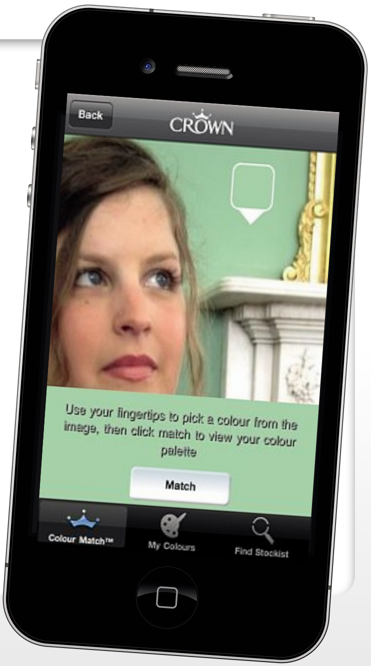
Tim's guide to home improvement apps on the iTunes store

Back when the original iPhone launched, one of the things that impressed me was the speed that app developers found inspired uses for its built-in technology. ***iHandy Level Free* (iHandySoft Inc)** was one such app – it utilises the accelerometer to mimic a traditional bubble-level measuring device, with the added benefit of a digital readout. Since then we've seen plenty of DIY and home improvement-related apps pop up on the store. Here are three more that are worth a look…

***My Measures and Dimensions Pro* (69p, SIS Software)** allows you to take photos of objects and draw on their dimensions using angles, arrows and text. This way your measurements can be instantly shared or stored for later reference.

Choosing colours for the rooms of your house can be a nightmare; if swatches are leaving you cold, check out ***Crown Colour Match* (Free, Crown Paints)**. Zoom in on any photo and pick out the colour you like, and the app will recommend the nearest Crown paint colour matches to it, along with a range of similar tones, from its 1,500-strong collection. Once you've built up your custom palette, allow the app to use location services to provide you with a list of your nearest Crown stockists. It's that easy.

If you're still lost for ideas, be sure to browse the 441,000-plus high-resolution photos in ***Houzz Interior Design Ideas* (Free, Houzz Inc)**.



Use your fingertips to pick a colour from the image, then click match to view your colour palette

Clear space on iOS

Make room to download more apps, games and media

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
10 minutes

WHAT YOU'LL NEED
iPhone, iPod touch, iPad, iOS 5+

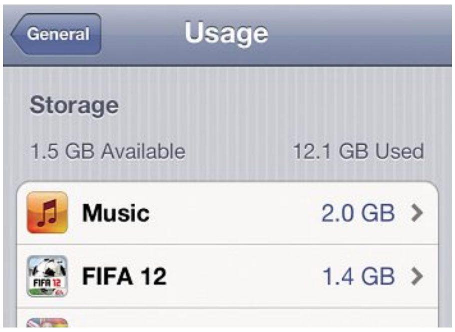
When you first got your iPhone, iPad or iPod touch, all that storage space probably seemed like it would last forever. But then came the day you wanted to download a new app, game or the latest episode of your favourite TV show or podcast, and you couldn't, because you suddenly found you'd run out of space.

But fear not, because you can easily pinpoint what's hogging your precious storage, and delete it – all without going near your computer.

A lot of the features we'll be showing you require iOS 5, so make sure you're up to date: tap Settings > General > About, and check that Version starts with 5. If not, connect your device and update it in *iTunes*.

Orange
18:54
100%
General
Usage
Storage
1.7 GB Available 11.9 GB Used
Music 2.0 GB
FIFA 12 1.4 GB
Translator 518 MB
UK - Ireland 405 MB
Pages 338 MB
Italy 302 MB
CityMaps2Go 248 MB
Rightmove 106 MB

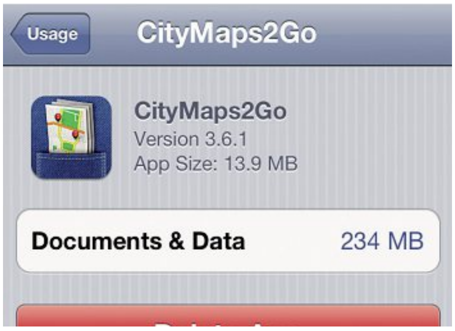
>> HOW TO / Free up some room on your iOS device



Storage
1.5 GB Available 12.1 GB Used
Music 2.0 GB
FIFA 12 1.4 GB

01 Find the space-hogs

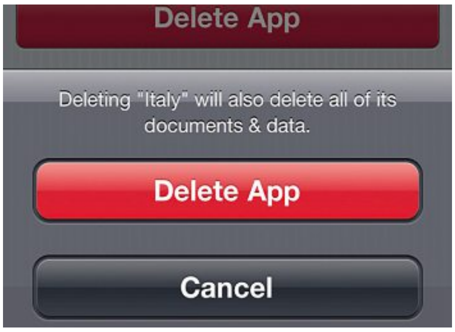
Tap into your device's *Settings* app, then tap General > Usage. At the top, you'll find the Storage section, which shows what's taking up the most space. Let's start by looking at the apps. Tap one of the space-hogs to bring up more details about it.



CityMaps2Go
Version 3.6.1
App Size: 13.9 MB
Documents & Data 234 MB

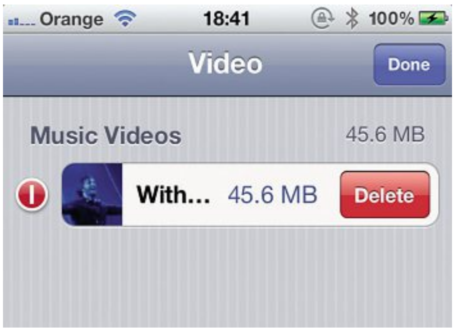
02 How much space?

You can now see how much space the app itself is using, as well as its Documents & Data (such as *Pages* files or saved games). The latter gets backed up to your Mac or iCloud when you Sync, so provided you've done this recently, you'll be able to restore them later.


Deleting "Italy" will also delete all of its documents & data.

03 Delete some apps

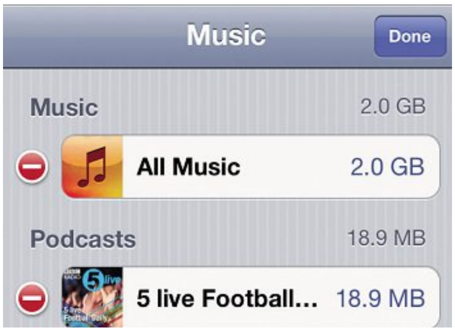
Remember that apps can be downloaded again for free. Tap **Delete App**, then **Delete App** again to remove the app and its Documents & Data. To see all your apps in this list, rather than just the biggest ones, scroll down and tap **Show All Apps**.



Music Videos 45.6 MB
With… 45.6 MB

04 Clear videos

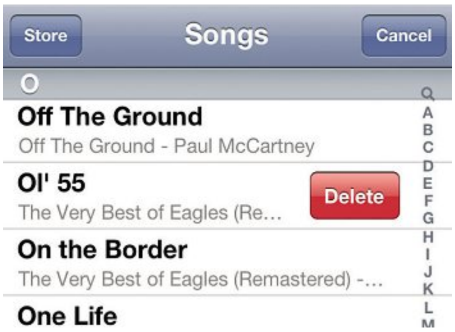
Removing video can be a quick win when it comes to clawing back space. Tap **Video** in the list to see what you've got stored on your device. To clear some of them off, tap **Edit**, followed by the red minus symbol alongside the video you'd like to remove. Then tap **Delete**.



Music 2.0 GB
All Music 2.0 GB
Podcasts 18.9 MB
5 live Football… 18.9 MB

05 Cut down on music

Chances are that Music ranks high up the list of space hogs. But when you tap it, you're offered the unhelpful option of removing all your music, rather than just selected songs and albums. So tap the **Home** button, then tap your *Music* app.



Off The Ground
Off The Ground - Paul McCartney
Ol' 55
The Very Best of Eagles (Re…
On the Border
The Very Best of Eagles (Remastered) -…
One Life

06 Clear songs

Browse by Artists, Albums or Songs (not Playlists – since removing a song from a playlist doesn't delete it from your device) to find songs you'd like to remove. Then swipe your finger from left to right over the track in question and tap **Delete**. ●

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› New kit for iPhone, iPad & iPod touch
› Learn to use your device with our guides

» SHOOT-'EM-UP

Max Payne Mobile

£1.99 A gaming legend comes to iOS

KEY INFO

Developer: Rockstar Games
Version: 1.11
Works with: iPhone 3GS, iPod touch 3rd Gen, iPad, iOS 4.2+

PROS & CONS

⊕ Great story
⊕ Superb set pieces
⊕ Multiple modes
⊖ Unresponsive jump button
⊖ Acting is pretty poor

VERDICT

★★★★☆

"Max Payne still has the power to grip from start to finish."

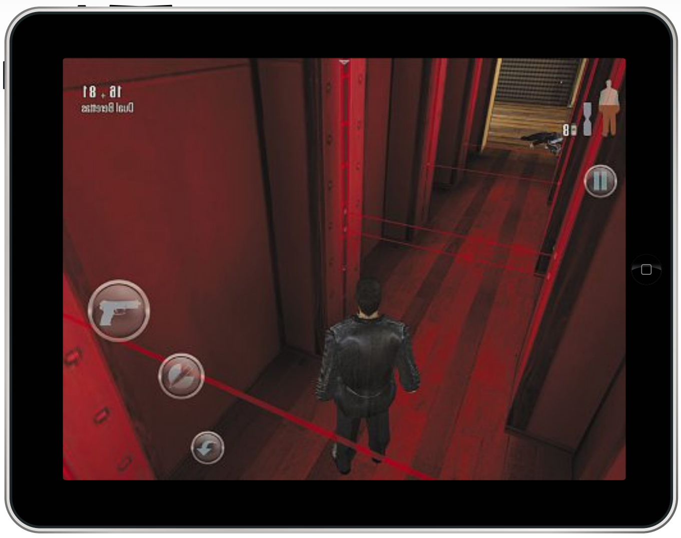
With *Max Payne 3* just hitting the consoles, it's timely that Rockstar should bring the original game to iOS devices, and, while it's more than a decade old, it still casts a powerful spell.

Much of the original's appeal came from its hard-boiled noir-style plot, its gun battles and the innovative use of bullet time, which you could use to slow down battles while picking off enemies in a satisfyingly cinematic style. Nothing's changed for this version and while the bullet-time feature is largely surplus to requirements on the first play-through, success unlocks trickier play modes where it comes into its own.

Throughout the game there are other challenges such as taking out trip mines and trying to negotiate tricky jumps (rendered all the trickier by a slightly unresponsive jump button), and while these can be a little frustrating, they break up the action-packed sequences quite nicely.

The story still manages to be gripping. Beginning in genuinely grim circumstances, it takes on the aspects of a noir thriller, embarking on surreal sojourns into unsettling dream sequences and evolving into all-out action. It's at times disturbing, thrilling and cinematic.

It's this marriage of compelling storytelling, filmic set pieces and innovative gameplay that made *Max Payne* such an iconic game in the first place and, surprisingly, it retains much of its power to thrill even now.



Max's already pretty bad day has just gotten a lot worse. This level involves a lot of running.

» TURN-BASED STRATEGY

Total War Battles

£4.99 Sometimes total war is the only way

KEY INFO

Developer: Sega America
Version: 1.1
Works with: iPhone, iPod Touch, iPad, iOS 4.2+

PROS & CONS

⊕ Looks great
⊕ Plays well
⊕ Simple yet satisfying
⊖ No online multiplayer

VERDICT

★★★★★

"Simply one of the best strategy games on iOS."

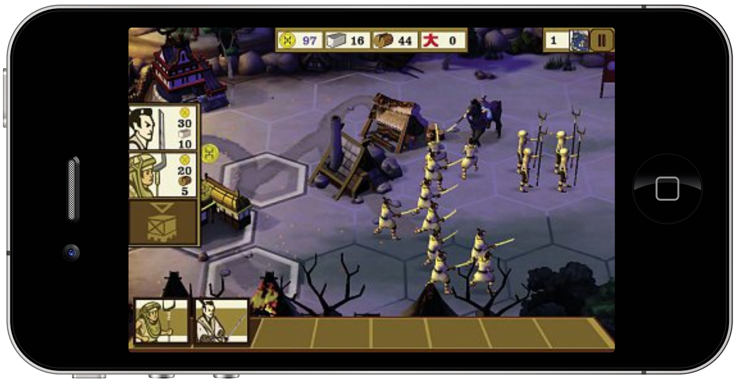
There's something rather glamorous and noble about medieval Japanese warfare. *Total War Battles*, with its smart looks, simplified gameplay and disciplined combat system, reflects our romantic view of feudal Japan perfectly.

The game is played out on a series of small, contained battlefields made up of hexes. Depending on the mission requirements you have to decide which buildings to construct and where, and how many units of various types to recruit in order to defeat the enemy.

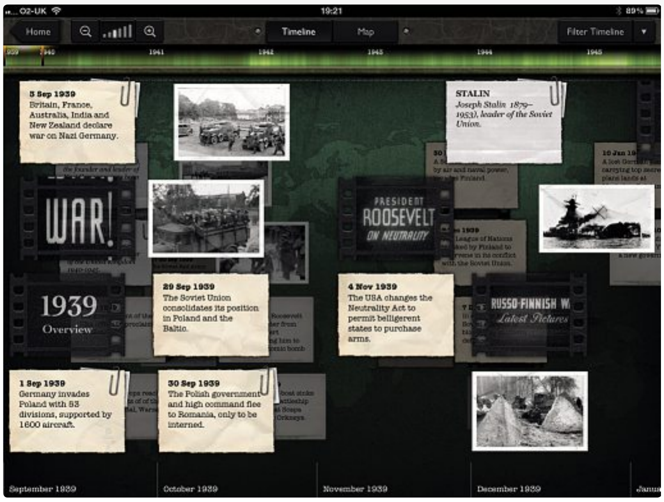
Unlike the full-sized games in the *Total War* series, which are crammed with stats and facts and figures to pore over, this is a much simplified strategy game. Units, once placed, can only move forward. There is the option to move up or down to the next row of hexes, but once done, you can then only move in a straight line again. It's a curious mechanism but leads to a whole layer of tactical thinking. What's more, it makes the game feel like a refreshing blend of proper strategy wargaming and tower defence. As more units come into play – shogun, cavalry, archers – so the battle builds in complexity. You have to think carefully about where to place buildings and how to use your resources to neutralise the various threats.

There's also a neat two-player mode on the iPad, during which players have their units arrayed along the side of the screen and play directly against one another like a fancy version of chess.

Total War Battles is a superb game, with an interesting mix of gameplay, sensibly streamlined for mobile play and beautifully presented.



It's important to learn which of the units are most effective against certain types of enemy.



5 Sep 1939
Britain, France, Australia, India and New Zealand declare war on Nazi Germany.

STALIN
Joseph Stalin 1879–1953), leader of the Soviet Union.

29 Sep 1939
The Soviet Union consolidates its position in Poland and the Baltic.

4 Nov 1939
The USA changes the Neutrality Act to permit belligerent states to purchase arms.

1 Sep 1939
Germany invades Poland with 53 divisions, supported by 1600 aircraft.

30 Sep 1939
The Polish government and high command flee to Romania, only to be interned.

Timeline World War 2 shows off the iPad's ability to present facts in an engaging way.

>> HISTORICAL ARCHIVE

Timeline World War 2

£5.99 A brilliant and comprehensive history of World War II

Developer: Ballista Media **Version:** 1.0.1 **Works with:** iPad

Timeline World War 2 manages to brilliantly weave together the story of the greatest conflict in history. It uses a combination of facts, figures, and original archive footage from Pathé News, with alternative commentary from TV historian Dan Snow. It utilises a simple mechanism of a zoomable timeline that you can swipe through, placing more than 2,000 events and snippets of information on the dates they occurred. Occasionally we wanted to dig into specific topics in more depth, as the app provides a huge breadth of content, but rather a smaller amount of in-depth information.

VERDICT
★★★★★
"A fantastic way for history buffs to lose themselves."

>> 'HOW TO' GUIDE CREATOR

Snapguide

Free Share and browse step-by-step guides

Developer: Heavy Bits **Version:** 1.0.3 **Works with:** iPhone, iPod touch

Snapguide allows you to create great-looking 'how to' guides and share them on Facebook, Twitter and Pinterest. Published guides can be viewed at snapguide.com, which hosts an array of tips, from recipes to magic tricks. Creating them requires little more than choosing images or video and adding text captions. However, tips and requests to rate guides become tiresome, and adding a photo or video from your Camera roll could be achieved in fewer steps.

VERDICT
★★★☆☆
"If YouTube isn't your scene, Snapguide is worth a look."

>> MESSAGING APP

Everyme

Free Can this private group messaging app lure you away?

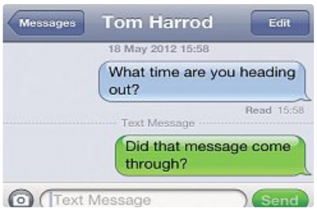
Developer: Everyme Inc **Version:** 1.0.2 **Works with:** iPhone

Building on the idea of Circles in Google+, *Everyme* is a new private sharing network that deliberately *doesn't* offer public posting. You make circles of friends, by finding them on *Everyme* or adding contact information, and then posting to all the friends in that circle. Best of all, if you've added someone through email or mobile, they can still receive and reply to your messages without having to sign up. The UI is suspiciously similar to *Path*, though.

VERDICT
★★★★☆
"Messaging with people who've not yet signed up is a real plus."

Essential iOS Tips & tricks

A quartet of clever tips to keep your iOS life content



18 May 2012 15:58

What time are you heading out?

Read 15:58

Did that message come through?

01 Message colours

When using *Messages* on iPhone, you can see if your message will be sent as a text message or an iMessage by the colour of the send button – it's green for SMS and blue for iMessage. The same colour codes apply after you've sent messages.

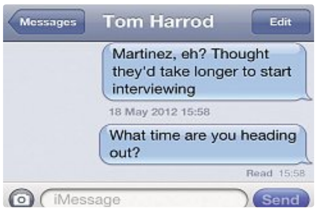
02 Undo typing

You can undo typing mistakes on an iPhone by shaking it and tapping **Undo Typing**, while on an iPad there's an undo button on the second keyboard screen. Tap the **.?123** button from the main keyboard to see it.

A S D F G H J K L
Z X C V B N M
123
space
return

03 Home button

If the Home button feels laggy, you can recalibrate it. Launch one of the stock apps (such as *Weather*), hold the power button until you see **Slide to power off**, let go, then hold the Home button until the app quits. And you're done!



Martinez, eh? Thought they'd take longer to start interviewing

18 May 2012 15:58

What time are you heading out?

Read 15:58

04 Read Receipts

To let others know when you've actually read their iMessage, you can turn on Read Receipts in Settings > Messages. This means people won't think you're being rude and not replying – they'll know you haven't read the message yet.

AHEAD OF THE CURVE

Get the best apps before your mates with **Tap!**, the world's first true magazine for iPad

New
APP
edition

iPad
12:00
100%
WELCOME: A NOTE FROM THE EDITOR
APPS | GAMES | KIT
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www.tapmag.co.uk/app

Available on the App Store

GROUP TEST

Considering getting a DAB tuner? Then read on - these radios work with your Apple devices too.

SONY
ROBERTS
ROBERTS
DAB
SNOOZE
MAGICBOX
PURE
REVO
Roth
DAB

Words: Ian Osborne **Photography:** Joe Branston

DAB radios with iOS docks

Radio has entered the digital age, but have you? We look at six of the best DAB radios for Apple devices

Digital radio is a major step up from analogue tuners. There's no hissing, and much less trouble with interference. There are far more stations available, and after one scan to find all the stations available in your area, switching between them is far simpler than retuning an AM or FM radio.

At the time of writing, around 86% of the UK can receive digital radio, with only the most remote areas still without coverage. Go to **http://bit.ly/JifOI7** and enter your postcode to see if your area is covered, and what stations are available.

The six DAB radios covered in this group test also have 30-pin dock connectors for use with iPods and iOS devices. Some also have internet streaming broadcasts, music streaming from your Mac or PC, touchscreen and/or remote controls and in one case, a CD player. A range of form factors are covered too. While most are single-unit radio sets, there's also a small-footprint tower device and one that consists of a base unit with two speakers. When choosing a DAB radio, it's important to check its feature set, and make sure you buy a device that's right for you. As we'll see here, price and audio quality aren't the only considerations.

> *"It's important to check the DAB radio's feature set and make sure you buy a device that's right for you"*

DID YOU KNOW THIS?

If your iOS speaker dock doesn't have a built-in internet radio, there's a cheap and easy way to add this feature to your setup. Just go to the iTunes App Store and download an internet radio app for your iOS device. *MacFormat's* current favourite is *Tunein Radio Pro*, which costs just 69p.

DAB Radios / At a glance

	Magicbox Tower	Pure Contour	Revo AXiS	Roberts ColourSTREAM	Roth KRadio	Sony CMT-MX550i
Price *	£59	£150	£178	£180	£147	£161
URL	www.magicboxproducts.com	www.pure.com	www.revo.co.uk	www.robertsradio.co.uk	www.rothaudio.co.uk	www.sony.co.uk
Network connections **	None	Wi-Fi	Wi-Fi	Wi-Fi/Ethernet	Wi-Fi/Ethernet	None
DAB presets available ***	10	30	10	10	10	20
Radio formats	DAB/FM	DAB/DAB+/FM/Internet	DAB/DAB+/FM/Internet	DAB/FM/Internet	DAB/FM/Internet	FM/DAB/DAB+
Drivers	1x4cm	2x9cm	1x5.8cm	2x8cm	2x8cm	2x10cm, 2x4cm
Output	5W	36W	8W	30W	10W	60W
Remote included	No	Yes	No (optional extra)	Yes	Yes	Yes
Dimensions	8.4x7.5x17cm	37x22x18cm	12.5x22x15cm	34x13x26cm	28x12x12.7cm	30.9×12.2x24.7cm (base unit) 22x24x15cm (each speaker)
Weight	850g	2.9 kg	1.6kg	3.4kg	2.1kg	2.9kg (base unit) 2kg (each speaker)

* Price from Amazon.co.uk at the time of writing.
** You can buy an optional Ethernet adapter for the Pure Contour, which connects through the radio's USB port.
*** For DAB only; more presets might be available for other radio sources.

[01] Magicbox Tower
£59 www.magicboxproducts.com

[02] Pure Contour
£150 www.pure.com

[03] Revo AXiS
£178 www.revo.co.uk

QUEEN
LANA DEL REY
R.E.M.
PURE
REVO
AXiS
MAGICBOX
01
02
03

>>TEST ONE

Build and design

Are they built well? Do they look good?

We love the Revo AXiS and Roberts ColourSTREAM's colour touchscreens. Both offer good looks and excellent build quality too, though perhaps the Roberts is a little over-shiny. The Pure Contour is an attractive, cloth-covered half-disc shape, with touch-sensitive buttons lit in a clear but subtle green hue.

Magicbox's Tower has a very small footprint, so is ideal for your bedside table. Its small LCD screen and physical buttons give a no-frills look to the device, but perhaps that's unsurprising given the price. Roth KRadio is solid and sturdy, but it's no great looker. Too many face buttons make it look dated, and its mono, white-on-blue screen is ugly. Sony's CMT-MX550i is unique in having two external speakers rather than being integrated into the unit.

The Sony and Pure models have retractable iOS docks. Thankfully, none of the radios asked us to use Airplane Mode when we docked our iPhone 4.

>>TEST RESULTS

Magicbox Tower	★★★½☆
Pure Contour	★★★½☆
Revo AXiS	★★★★½
Roberts ColourSTREAM	★★★★☆
Roth KRadio	★★★☆☆
Sony CMT-MX550i	★★★☆☆

>>TEST TWO

Features

Does your DAB radio do everything you want it to?

Some great performances here. As well as DAB, the Pure, Roberts, Roth and Revo devices all offer internet streaming broadcasts, giving access to tens of thousands of stations from all over the world. They can stream music across your home network too, from your Mac or compatible NAS drive. The Pure Contour and Revo AXiS also have video-out, so you can connect to a screen and play video from your iOS device. All the radios on test have a 3.5mm AUX port to connect non-Apple audio devices, but only Pure, Revo and Roberts devices have headphone ports. All units except Sony's had two alarms.

If you wish to connect your DAB radio to an existing stereo setup, only the Revo AXiS has stereo RCA ports. The Sony CMT-MX550i is unique in offering a CD player as well as radio and iPod facilities, and Roberts' and Sony's units can play music from a USB drive. All except the Magicbox and the AXiS have bundled remotes, but you can buy one for the AXiS if you wish.

>>TEST RESULTS

Magicbox Tower	★★½☆☆
Pure Contour	★★★★☆
Revo AXiS	★★★★½
Roberts ColourSTREAM	★★★★½
Roth KRadio	★★★★☆
Sony CMT-MX550i	★★★½☆

>> HOW WE TESTED / Putting the radios through their paces

We assessed the six DAB radios with iOS docks in four key areas. First, we looked at build quality and design. Are they solidly constructed? Do they look good? Our Features test compared and contrasted the radio's functions. What do they offer above and beyond the basic requirements for the group test, ie. DAB and iOS compatibility? Can they stream music from your home network? Do they receive internet streaming broadcasts as well as digital and analogue radio stations? What about connectivity and control options?

For our all-important Audio Quality test, we played music from several genres using our iPhone 4, and also tuned in to a range of DAB radio stations. Rock and metal was used to judge the intensity of the sound and its bass reproduction. Our favourite pop and soul tracks allowed us to assess the vocals and top end, with jazz and classical music checking its complete range. Finally, we ask whether they're easy to use. There's nothing worse than using only a fraction of a radio's capabilities because exploring everything it can offer is a chore.

REVO
3:17pm 24 Aug 2009
DAB
BBC 6 Music
Rock Music
The UK's best new music
DAB Radio
AXiS

We put each radio through a battery of usability tests.

04

05

06

[04] Roberts ColourSTREAM
£180 www.robertsradio.co.uk

[05] Roth KRadio
£147 www.rothaudio.co.uk

[06] Sony CMT-MX550i
£161 www.sony.co.uk

»TEST THREE

Audio quality

What do they sound like? Do they impress?

Perhaps you're on a budget or want something to fill a small space. Then the Magicbox Tower won't disappoint. It has quite a small sound and lacks bass, but it's fairly detailed and handles vocals reasonably well. The Pure Contour has a warm and friendly radio sound and a simple equaliser that lets you set bass and treble to taste, but the bass is muddy and the overall sound has little detail.

The AXiS has a crystal clear top end and good bass. The sound stage is reasonable considering its one-speaker form factor, though the mid-tones could be more intense. The ColourSTREAM has a very strong bottom end, perhaps a little too strong. Treble is crisp and lively, but again, mid-tones are a little squashed. KRadio has a lively bottom end that doesn't swamp the mid-tones, though the top end could be a little sharper. Sony's stereo has a lively sound, but the top and bass squeeze the mid-range. As you'd expect, it beats the others for stereo effects.

»TEST RESULTS

Magicbox Tower	★★★☆☆
Pure Contour	★★★☆☆
Revo AXiS	★★★★½
Roberts ColourSTREAM	★★★★☆
Roth KRadio	★★★★½
Sony CMT-MX550i	★★★☆☆

»TEST FOUR

Ease of use

Because a good user interface makes all the difference

The AXiS and ColourSTREAM touchscreen interfaces are almost identical. Both make it really easy to connect your radio to your home network for internet and music streaming, and best of all, they navigate the tens of thousands of internet streaming broadcasts with ease. The Revo is slightly better as it supports RadioVis and the new DAB slideshow feature, both of which display images streamed from compatible stations.

Magicbox Tower is easy to use, but there aren't a lot of features to get lost in, and Sony's system presented no real problems. Roth's KRadio is simple enough to set up, but the face buttons aren't always instinctive, which is a pity considering how much room they take up. The Pure Contour proved disappointing. It's slow, with a delay between pressing a button and getting the result, and while you can set up your internet stations through the Pure Lounge website, exploring them through the radio itself is woeful.

»TEST RESULTS

Magicbox Tower	★★★★☆
Pure Contour	★★½☆☆
Revo AXiS	★★★★★
Roberts ColourSTREAM	★★★★½
Roth KRadio	★★★☆☆
Sony CMT-MX550i	★★★½☆

»THE WINNER / Which came top in our tests?

Revo's victory will come as no surprise to regular *MacFormat* readers. The Lanark-based company produces hi-tech radios with real style, panache and, of course, audio quality. The AXiS came joint top in our sound test. In a three-way comparison between the strongest-sounding DAB radios on offer, it edged out the ColourSTREAM with a livelier sound, but tied with KRadio. AXiS was brighter, KRadio sounded broader.

The AXiS proved its worth in other areas too. It has a small footprint, so it's great on your desktop. If you want to connect your DAB digital radio to a sound system, it's the only device with RCA stereo output, and its controls and interface make it a pleasure to use.

»FINAL RESULTS

Magicbox Tower	★★★☆☆
Pure Contour	★★½☆☆
Revo AXiS	★★★★★
Roberts ColourSTREAM	★★★★½
Roth KRadio	★★★★☆
Sony CMT-MX550i	★★★½☆

Mac FORMAT Winner!

Download once... read offline forever!

Now you can enjoy *Your Family Tree* in print, on iPad and iPhone, or on your PC and Android device. Single issues and money-saving subscriptions are available.

No. 1 for GENEALOGY
Let our experts answer your problems!

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How to Find family in Lancashire • Track down transported kin • Date your vintage photos • Locate firefighting relatives
Get started with... Canadian research ✓ Photo analysis ✓ FamilySearch ✓
June 2012 Issue 117
www.yourfamilytreemag.co.uk
Your Family Tree
GENEALOGY ADVICE YOU CAN TRUST
20th century records
Unlock the full potential of modern sources and shed new light on recent family
STEP-BY-STEP GUIDE
IRISH SOURCES
Find your forebears using Irish census substitutes
"My ancestor eloped under the moonlight on horseback"
Reader Case Studies start on pg34
LOST AND FOUND
LOCATE RELATIVES WHO WERE TRANSPORTED OVERSEAS
CORONATION BRITAIN
HAVE YOUR SAY!
When do you think we need the next census?
20th century records revealed
The 20th century was a period of huge change, and researching the recent history of our families is just as interesting – and challenging – as finding out about our distant ancestors
htc

Apple UK: *http://goo.gl/vZXFF*
Apple US: *http://goo.gl/CAIzl*
Zinio [Android]: *http://tiny.cc/owusj*
Print: *http://tinyurl.com/7q7k7a5*

Available on the App Store

zinio™

"Apple notebooks are known for their excellent screens and viewing angles"

CHOOSING YOUR FIRST APPLE NOTEBOOK P120

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Buyers' Guide

ALL THE BEST KIT TO GO WITH YOUR MAC

Tim Hardwick
Apps Guru

We're sitting in the office just finishing the issue, when there's the cry of "The Apple Store is down!". We all frantically log on to see the familar 'We'll Be Back' sign, which means that either shiny new gear is about to arrive, or someone is doing a bit of server-side maintenance. An hour later and it appears that it's just some back-end spring cleaning.

But later on the store is down again. Could this be the much-rumoured MacBook Pros? A new spec for the MacBook Air? Perhaps the (very) long-awaited Mac Pro update?

Ah… no. The store reappears and nothing has changed. So we get back to work, silently hoping Apple doesn't suddenly drop a bombshell in our laps. There's nothing quite like signing off the last page just as a new product appears, knowing that you need to hold the press and pull a late shift to get the new kit in.

Oh no… the Apple Store is down *again!*

>> BUYING ADVICE YOU CAN TRUST

Our mission is to ensure that when you buy a Mac-related product, you are completely informed about its best and worst features. We have a cast-iron policy of editorial independence. **For the latest prices and full review see the TechRadar URL listed next to each review.**

How to buy a new Mac

Not sure which Mac to buy? We'll help you choose!

» DID YOU KNOW THIS?

The top-of-the-range Mac Pro has two 2.66GHz six-Core Intel Xeon 'Westmere' processors. You can upgrade them to 2.93GHz CPUs using the online custom options.

The mid-2011 refresh brought quad-core Sandy Bridge processors to the iMac range.

Apple sells its products every which way at once. You can buy a Mac direct from the online Apple Store (**http://store.apple.com/uk**); from one of the growing number of bricks-and-mortar Apple Stores around the country; from official 'Apple shops' within department stores, staffed by certified Apple Solutions Consultants; and from hundreds of independent Apple Authorised Resellers and Premium Resellers, variously selling online or on the high street.

The bigger independents buy direct from Apple, while others go through a network of distributors. To find the one nearest you, go to **www.apple.com/uk/buy**. Given this range of outlets, shopping around for your Mac could save you money – but probably not very much. There simply isn't much profit margin for independent dealers to knock off. The Mac's popularity means Apple doesn't have to leave a big gap between its wholesale prices and Apple Store prices – effectively the minimum and maximum level at which retailers can sell their wares.

Authorised Resellers may knock a few pounds off Apple Store prices, and can also sell you other kit at competitive prices. Although you may find fractionally lower prices online, by choosing a local dealer you could get the benefit of trying before you buy and having someone on hand to answer questions. Either way, Mac resellers tend to be very knowledgeable and keen to help.

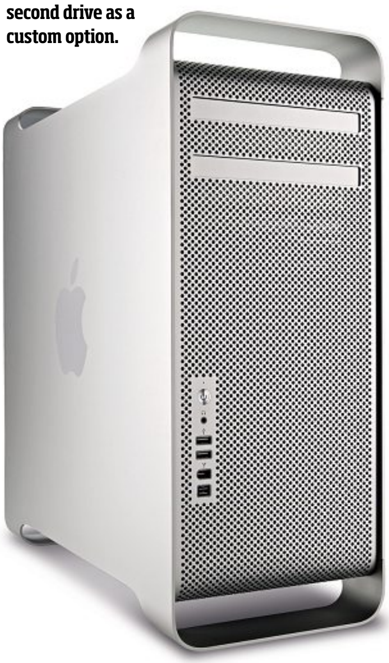
There are a couple of other ways to cut the cost of a new Mac. Business buyers can save a fortune by reclaiming the VAT and offsetting the purchase against tax. If you're not eligible, you may still qualify for a discount from Apple. Any student or teacher can get special pricing. That includes schoolkids (follow links to the Education Store for more). The reductions aren't huge, but they're worth having. For example, a top-of-the-range 27-inch iMac lists for £1,550.40, compared to the regular price of £1,649. Authorised Resellers can access these special rates and may even shave a bit more off for you.

"Any student or teacher can get special pricing for education, and that includes schoolkids. Simply follow links to the Education Store."

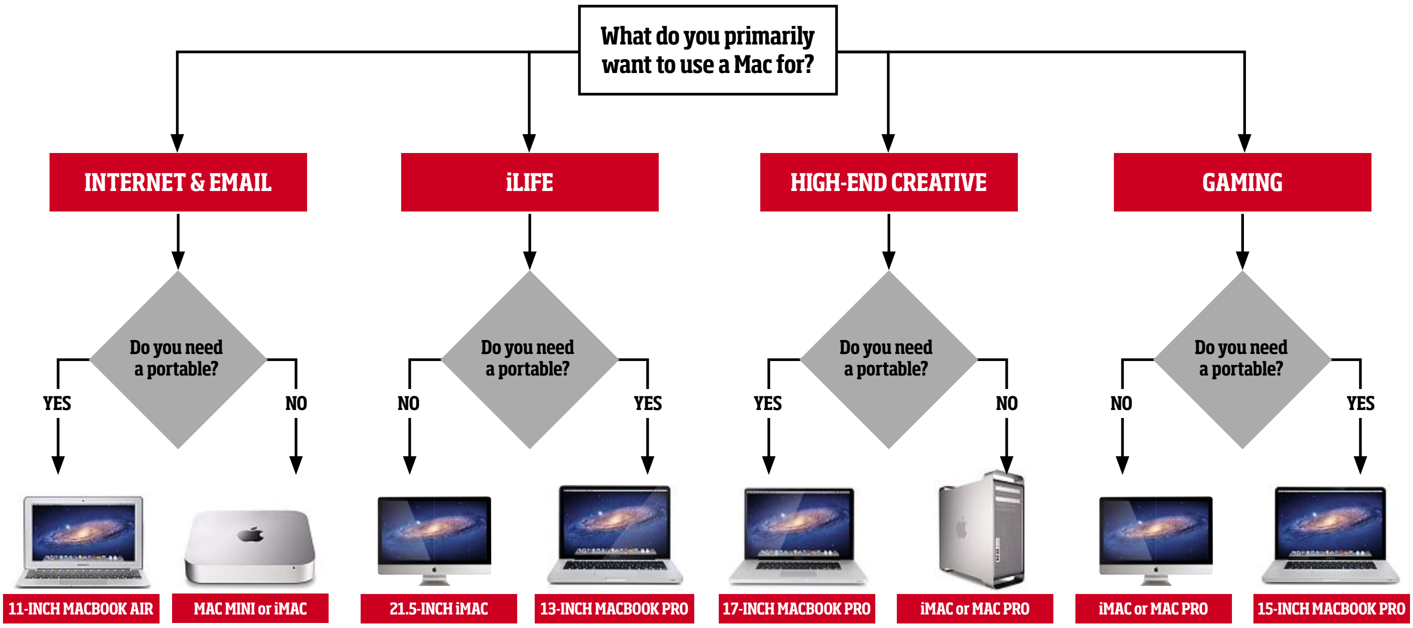
To help you find the cash, Apple also offers financing options. For consumers, this spreads the payments, though you do pay interest. For businesses, flexible leasing knocks more off your tax bill and lets you upgrade your hardware – and indeed software – when necessary without spending big chunks of capital. You can find out plenty more at **www.apple.com/uk/financing**.

Your budget will stretch even further with clearance, refurb and second-user deals. If you can suppress your envy of marginally newer, shinier kit, the best time to shop for a Mac is

The Mac Pro has two optical drive bays, though one is empty unless you order a second drive as a custom option.



CHOOSING A MAC / Which one is right for you?


What do you primarily want to use a Mac for?
INTERNET & EMAIL
iLIFE
HIGH-END CREATIVE
GAMING
Do you need a portable?
YES
NO
Do you need a portable?
NO
YES
Do you need a portable?
YES
NO
Do you need a portable?
NO
YES
11-INCH MACBOOK AIR
MAC MINI or iMAC
21.5-INCH iMAC
13-INCH MACBOOK PRO
17-INCH MACBOOK PRO
iMAC or MAC PRO
iMAC or MAC PRO
15-INCH MACBOOK PRO

just after Apple brings out new models. Wander down to John Lewis and you're quite likely to find the last of the old range with three-figure reductions. Do check the specs against the incoming versions, which will offer more for the same original price, but at the bottom end of the range you could pay less than the current entry-level for a perfectly good machine. Anywhere that holds Macs in stock is similarly worth a raid, and online retailers also have clearance bins.

Saving money

Apple itself has a surprisingly little-known online bargain basement at http://store.apple.com/uk/browse/home/specialdeals/mac. It's a treasure trove of cut-price kit, with some clearance items and many described as 'refurbished'. This usually means someone's bought a Mac, then changed their mind or found a problem and sent it back. Industry insiders tell us these returns often have absolutely nothing wrong with them, and in any case they're fully tested and any faults fixed before they're resold. They're guaranteed for a full year, extendable up to three years via AppleCare.

Besides deciding who to buy from, there's the tricky question of which Mac to pick. You can have a MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro. Most Mac families offer several standard models, plus plenty of built-to-order options, adding up to hundreds of possibilities.

> *"Apple itself has a surprisingly little-known online bargain basement. it's a treasure trove of cut-price kit, many items 'refurbished'."*

By comparing the prices of different configurations – easily done at http://store.apple.com/uk – you can suss out the best value. For example, the entry-level 21.5-inch iMac is a bargain at £999. If you want a higher spec, the next option doubles the hard disk space and adds a more powerful graphics card, but it's an extra £250. However, you're not limited to the preset models. By clicking the Select button, you can tweak the listed specifications to create your own Mac. The only downside is that you'll need to allow a week or two for your own personal Mac to arrive.

Just think of it as an exercise in delayed gratification.

Apple notebooks are known for their excellent screens, with great viewing angles.

DID YOU KNOW THIS?

Apple's MagSafe power connector is held in place by a magnet, and is designed to snap out if the power cord is tugged, preventing potentially expensive accidents.

How to choose the perfect Mac

Let us help you make the right purchase. Here are your options…

21.5-inch 2.5GHz
£999
- 2.5GHz quad-core Intel Core i5
- 21.5-inch glossy widescreen at 1,920x1,080 pixels • 4GB RAM (expandable to up to 16GB) • 500GB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6750M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

27-inch 2.7GHz
£1,399
- 2.7GHz quad-core Intel Core i5
- 27-inch glossy widescreen at 2,560x1,440 pixels • 4GB RAM (exprndable to up to 16GB)
- 1TB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6770M graphics with 512MB GDDR5 memory
- 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt ports; 1xSDXC card slot
- Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

iMac

Updated May 2011

21.5-inch 2.7GHz
£1,249
- 2.7GHz quad-core Intel Core i5
- 21.5-inch glossy widescreen at 1,920x1,080 pixels• 4GB RAM (expandable to up to 16GB) • 1TB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6770M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

27-inch 3.1GHz
£1,649
- 3.1GHz quad core Intel Core i5
- 27-inch glossy widescreen at 2,560x1,440 pixels • 4GB RAM (expandable to up to 16GB) • 1TB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6970M graphics with 1GB GDDR5 memory• 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

2.3GHz 500GB
£529
- 2.3GHz dual core Intel Core i5
- 2GB RAM (2x 1GB 1,333MHz)
- 500GB SATA, 5,400rpm HDD
- 3MB shared L3 cache
- Intel HD Graphics 3000 with 288MB of DDR3 SDRAM shared with main memory• 802.11n Wi-Fi, Bluetooth 4.0,10/100/1000BASE-T Ethernet
- 1x Thunderbolt, 1xFireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11
- HDMI video out with HDMI to DVI adapter • No optical drive

Mac mini

Updated July 2011

2.5GHz 500GB
£699
- 2.5GHz dual core Intel Core i5
- 4GB RAM (2x 2GB 1333MHz)
- 500GB SATA, 5,400rpm HDD
- 3MB shared L3 cache
- AMD Radeon HD 6630M graphics processor with 256MB of GDDR5 memory• 802.11n Wi-Fi, Bluetooth 4.0, 10/100/1000BASE-T Ethernet
- 1x Thunderbolt, 1xFireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11
- HDMI video out with HDMI to DVI adapter • No optical drive

Quad-Core

£2,041

• 2.8GHz Quad-Core Intel Xeon • 3GB RAM (expandable to up to 16GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory • Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 4x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

8 -Core

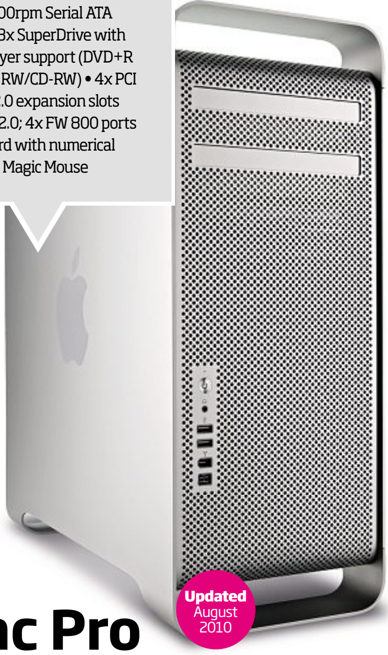
£2,859

• Two 2.4GHz Quad-Core Intel Xeon • 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory • Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 4x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

12-Core

£4,083

• Two 2.6GHz 6-Core Intel Xeon • 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory • Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 3x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse



Updated August 2010

Mac Pro

13-inch 2.4GHz

£999

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.4GHz dual-core Intel Core i5 processor • 7-hour battery • 4GB (two 2GB SO-DIMMs) of 1,333MHz DDR3 memory • 500GB, 5,400rpm hard drive • 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) • Intel HD Graphics 3000 • Mac OS X 10.7 and iLife '11 • 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

13-inch 2.8GHz

£1,299

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.8GHz dual-core Intel Core i7 processor • 7-hour battery • 4GB (two 2GB SO-DIMMs) of 1,333MHz DDR3 memory • 750GB, 5,400rpm hard drive • 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) • Intel HD Graphics 3000 • Mac OS X 10.7 and iLife '11 • 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

15-inch 2.2GHz

£1,549

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.2GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory • 500GB, 5,400rpm hard drive • 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) • AMD Radeon HD 6750M graphics processor with 512MB of GDDR5 memory • Mac OS X 10.7 and iLife '11 • 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

15-inch 2.4GHz

£1,849

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.4GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory • 750GB, 5,400rpm hard drive • 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) • AMD Radeon HD 6770M graphics processor with 1GB of GDDR5 memory • Mac OS X 10.7 and iLife '11 • 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

17-inch 2.4GHz

£2,099

• 17-inch LED-backlit glossy widescreen 1,920x1,200 pixels • 2.4GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory • 750GB, 5,400rpm hard drive • 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) • AMD Radeon HD 6770M graphics processor with 1GB of GDDR5 memory • Mac OS X 10.7, iLife '11 • 1x Thunderbolt port, 1x FireWire 800, 3x USB 2.0, 1x ExpressCard/34 slot

13-inch models

£1,099/£1,349

• 1.7GHz Intel Core i5 CPU • 13.3-inch LED-backlit glossy widescreen at 1,440x900 pixels • 128GB or 256GB of flash storage • Intel HD Graphics 3000 processor • 4GB of 1333MHz DDR3 memory • Seven-hour battery life, or 30 days on standby • FaceTime camera • 2x USB 2.0 ports, Thunderbolt port, 802.11n Wi-Fi, Bluetooth 4.0 • SD reader • Lion and iLife '11

11-inch models

£849/£999

• 1.6GHz Intel Core i5 CPU • 11.6-inch LED-backlit glossy widescreen at 1,366x768 pixels • 64GB or 128GB of flash storage • Intel HD Graphics 3000 processor • 2GB or 4GB of 1333MHz DDR3 memory • Five-hour battery life, or 30 days on standby • FaceTime camera • 2x USB 2.0 ports, Thunderbolt port, 802.11n Wi-Fi, Bluetooth 4.0 • Lion and iLife '11 preinstalled

Updated July 2011

Updated July 2011

MacBook Air

Updated Oct 2011

MacBook Pro

What about an iPhone or iPad?

Apple's mobile devices are designed to sync perfectly with your Mac

»DID YOU KNOW THIS?

The new iPhone 4S is available in black or white. It features a powerful new eight-megapixel camera (60% more pixels than before), with advanced optics, a larger f/2.4 aperture and 1080p HD video recording.

Both the iPhone and iPad have a touchscreen, come with email and web-browsing applications and are capable of running third-party apps that you can get from Apple's App Store. But the iPad isn't simply a bigger iPhone. The iPhone is first and foremost a phone, and like all mobile phones, unless you buy it on Pay as You Go (which makes the device itself much more expensive) you're going to be tied into a phone contract.

If you want all the features of the iPhone but without the phone part, then consider getting an iPod touch instead (see over the page).

If you're looking for a phone then you'll find the iPhone is designed to cover all your data needs while you're on the go, and fits in your pocket.

In contrast, the iPad is a device that sits somewhere between an iPhone and a Mac. It also comes with a data contract option, but that doesn't include phone calls. The only phone calls you can make with it will be digitally, using VoIP apps, such as *Skype*. While a lot of people find the iPhone perfectly acceptable for home use, if you just need to check your email or do a quick bit of web surfing, the iPad is positively designed to be used from your sofa. It has built-in Wi-Fi, which means you can check emails and browse the web on your wireless network at home. With the release of iOS 5 back in the Autumn of 2011, iOS devices no longer have to be activated using a USB link to *iTunes* on a Mac or PC. You can still keep your data on your computer and sync it if you wish, but it's perfectly possible to have an iOS device without owning a computer.

The iPad has some big advantages over a laptop. For a start, because it uses solid-state memory it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight, extremely portable and the perfect size to be used as an ebook reader.

> *"The iPad uses solid-state memory, so it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight"*

The iPhone currently comes in three versions, the 3GS, iPhone 4 and iPhone 4S. The iPhone 4 and the new iPhone 4S feature a stunning 960x640 high-resolution display, making it much easier to read on-screen text. The iPhone 4S boasts a dual-core A5 processor, giving it up to twice as much power and up to seven times faster graphics. Its eight-megapixel camera is much improved, and its new Siri feature lets you operate your iPhone by speaking.

The iPad comes in black and white, each in three capacities, 16GB, 32GB and 64GB, available in Wi-Fi or Wi-Fi + 4G versions. Each 4G version costs £100 more than a Wi-Fi-only model with a similar memory capacity. However, as there are currently no 4G

Use your iPad to surf the web, run apps, send and receive emails, and listen to your music.

All of Apple's current generation of iOS devices now boast a high resolution Retina display.

iPad

Updated
March
2012

iPad 2, 16GB
£329 Wi-Fi
£429 Wi-Fi + 3G

• 9.7-inch LED-widescreen, 1,024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

New iPad, 16GB
£399 Wi-Fi
£499 Wi-Fi + 4G

• 9.7-inch LED-widescreen, 2048x1536 pixels • Dual-core Apple A5X processor • 42.5Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 1080p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 4G only) • 241.2x185.7x9.4mm • 652g (Wi-Fi), 662g (Wi-Fi + 4G) • Ambient light sensor, accelerometer, gyroscope

New iPad, 32GB
£479 Wi-Fi
£579 Wi-Fi + 4G

• 9.7-inch LED-widescreen, 2048x1536 pixels • Dual-core Apple A5X processor • 42.5Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 1080p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 4G only) • 241.2x185.7x9.4mm • 652g (Wi-Fi), 662g (Wi-Fi + 4G) • Ambient light sensor, accelerometer, gyroscope

New iPad, 64GB
£559 Wi-Fi
£659 Wi-Fi + 4G

• 9.7-inch LED-widescreen, 2048x1536 pixels • Dual-core Apple A5X processor • 42.5Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 1080p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 4G only) • 241.2x185.7x9.4mm • 652g (Wi-Fi), 662g (Wi-Fi + 4G) • Ambient light sensor, accelerometer, gyroscope

iPhone

Updated
October
2011

“On May 19 remind me it's dad's birthday”
Here's your reminder for May 19, 2012 at 9 am:
19 Saturday May 2012
Dad's birthday
Cancel
Confirm

iPhone 3GS 8GB
£319 (Pay & Go)

• Available in black
• 3.5-inch widescreen
• 320x480 pixels • Wi-Fi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR
• Photo and video geotagging
• Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime)
• 115.5x62.1x12.3mm
• 135g • Requires Mac OS X 10.5.8 or later

iPhone 4 8GB
£429 (Pay & Go)

• Available in black or white
• 3.5-inch widescreen
• 960x640 pixels • Wi-Fi (802.11b/g/n) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.1 + EDR
• Photo and video geotagging
• Battery lasts up to 40 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 14 hours (talktime)
• 115.5x58.6x9.3mm
• 137g • Requires Mac OS X 10.5.8 or later

iPhone 4S 16, 32 or 64GB
From £499 (Pay & Go)

• Available in black or white
• 3.5-inch widescreen
• 960x640 pixels • Wi-Fi (802.11b/g/n) • UMTS/HSDPA/HSUPA/GSM/EDGE, 3G • Bluetooth 4.0 • Siri
• Assisted GPS • Photo and video geotagging • Battery lasts up to 40 hours (audio), 10 hours (video), 14 hours (talktime) • 8MP camera
• 115.5x58.6x9.3mm • 140g
• Mac OS X 10.5.8 or later

CHOOSING AN iPOD

Updated
September
2010

iPod shuffle 2GB
£40

• Up to 500 songs • No ability to display photos or videos
• Available in five colours; silver, blue, green, yellow, pink
• No screen, but the control pad returns • VoiceOver enables your iPod to talk to you
• 3.5-mm stereo headphone jack is used for both audio out and USB charging
• Battery lasts up to 15 hours
• 29x31.6x8.7mm • 12.5g

Updated
October
2011

iPod nano 8GB
£115

• Up to 2,000 songs • Up to 7,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen • 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

iPod nano 16GB
£129

• Up to 4,000 songs • Up to 14,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen
• 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

Updated
October
2011

iPod touch 8GB
£169

• Up to 1,750 songs • Up to 10,000 photos • Up to 10 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
• 111x58.9x7.2mm • 101g

iPod touch 32GB
£249

• Up to 7,000 songs • Up to 25,000 photos • Up to 40 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
• 111x58.9x7.2mm • 101g

iPod touch 64GB
£329

• Up to 14,000 songs • Up to 50,000 photos • Up to 80 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
• 111x58.9x7.2mm • 101g

iPod classic 160GB
£197

Updated
September
2009

• Up to 40,000 songs • Up to 25,000 photos • Up to 200 hours of video • Available in black and silver • 2.5-inch screen • 320x240 pixels
• Battery lasts up to 36 hours (audio) • Battery lasts up to 6 hours (video) • 103.5x61.8x 10.5mm • 140g

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Tap! and TechRadar presents
100 tricks & tips for iPad 2

iGamer
100% iOS Gaming

Tap! The
iPad magazine

Get them at:
www.myfavourite magazines.co.uk/ apps

Available on the App Store

BUYERS' GUIDE

KEYBOARDS & MICE

Logitech Solar KB K750

★★★★½

Price: £70 **Reviewed:** Issue 242
Web: www.logitech.com/uk
Full rev: www.techradar.com/960675
Key specs: Wireless operation; solar powered; requires Mac OS X 10.4 or later, and a spare USB port for the RF dongle.

+ No batteries required; Mac button layout; comfortable to type on
− Some features need a driver download

"An excellently designed keyboard that matches the Mac's standard button layout. Great solar-powered features."

Wacom Intuos5 touch Med ★★★★½

Price: £330 **Reviewed:** Issue 247
Full review: www.techradar.com/1075347
Key specs: 5080lpi; wireless option; gestures
+ Enlarged work area; gestures; new Express Keys
− Expensive

Apple Magic Trackpad ★★★★☆

Price: £60 **Reviewed:** Issue 226
Full review: www.techradar.com/713555
Key specs: Bluetooth; supports gestures
+ Brings gestures to Apple's desktop range of Macs
− Doesn't work in pre-Snow Leopard OS X

PRINTERS & ALL-IN-ONES

Canon PIXMA MG8150

★★★★★

Price: £217 **Reviewed:** Issue 241
Web: www.canon.co.uk
Full review: MF Issue 241 group test
Key specs: USB, Ethernet and Wi-Fi connectivity; PictBridge; Auto Duplex; six ink tanks; print on optical discs

+ Stellar print quality; comprehensive feature set; elegant and robust
− Not AirPrint-compatible

"Solid text printing and stellar photo reproduction, together with a comprehensive feature set, make this a great buy."

Canon PIXMA MG6150 ★★★★★

Price: £100 **Reviewed:** Issue 227
Full review: www.techradar.com/719361
Key specs: Six-tank inkjet; touch-sensitive controls
+ Comprehensive connectivity; terrific print quality
− Could be faster

HP Photosmart 7510 ★★★★½

Price: £250 **Reviewed:** Issue 232
Key specs: Multifunction inkjet printer
Full review: www.techradar.com/1042424
+ Solid and robust, with excellent print quality
− Lacks one or two features

DISPLAYS

EIZO FORIS FS2331

★★★★★

Price: £342 **Reviewed:** Issue 237
Web: www.eizo.co.uk
Full rev: MF Issue 237 group test
Key specs: 2xHDMI, DVI, VGA; screen size 58cm; 1920x1080 resolution; 300cd/m^2; contrast ratio 12,000,000:1

+ Very good value for money mid-range monitor. Great viewing angles
− Could be a little more stylish

"The EIZO's big win is the simple but brilliant inclusion of a remote control for tweaking its settings."

Hanns.G HL229DPB ★★★★☆

Price: £89 **Reviewed:** Issue 245
Full review: www.techradar.com/1062919
Key specs: 21.5-inch widescreen; 1920x1080
+ Cheap, and good quality for the price
− Unattractive design, and thick build

Apple Thunderbolt Display ★★★★☆

Price: £899 **Reviewed:** Issue 241
Full review: www.techradar.com/1037021
Key specs: 2560x1440 pixel resolution, 178° angle
+ Single cable; daisy-chaining Thunderbolt
− Very expensive; limited compatibility

AUDIO DEVICES

Revo K2

★★★★★

Price: £300 **Reviewed:** Issue 243
Web: www.revo.co.uk
Full review: www.techradar.com/1048526
Key specs: Drivers 4x5.8cm; Output 40W; DAB/DAB+, FM, Internet Radio, iOS dock, AUX, streaming audio

+ Excellent sound; extremely versatile; small footprint; looks great
− We've nothing significant to complain about here

"An excellent blend of form and function, the Revo K2 looks as good as it sounds. It's really easy to use too."

Fidelio SoundSphere ★★★★★

Price: £699 **Reviewed:** Issue 243
Full review: www.techradar.com/1049034
Key specs: Max output 50W+50W; AirPlay
+ Easy to set up; amazing sound quality
− Very expensive; tweeters vulnerable to damage

Logitech W'less Boombox ★★★★★

Price: £118 **Reviewed:** Issue 248
Full review: MF Issue 248 mini group test
Key specs: Six front and two back drivers; BT
+ Very complete sound; Bluetooth; rechargeable
− Not a great looker

DIGITAL CAMERAS

Sony Alpha 65

★★★★★

Price: £789 **Reviewed:** Issue 245
Web: www.sony.co.uk
Full rev: www.techradar.com/1047176
Key specs: 23.4MP; Supports JPEG, RAW, simultaneous RAW and JPEG and AVHD/MP4 file formats

⊕ Hi-res, detailed images; fast continuous shooting range
⊖ Lacks the build quality of the A77

"There's a lot of features on offer, yet it's easy to use and gives great results. Great for experienced and novice users."

Canon Powershot G1 X ★★★★½

Price: £699 **Reviewed:** Issue 248
Full review: www.techradar.com/1063587
Key specs: Lens 28-122mm f/2.8-5.8; weighs 535g
⊕ Lots of control and auto options; excellent pics
⊖ Bulky for a compact camera

Panasonic Lumix DMC-G3 ★★★★☆

Price: £470 **Reviewed:** Issue 243
Full review: Issue 243 Group Test
Key specs: 15.8MP Live MOS; 3-inch screen
⊕ Easy to use; produces great images
⊖ Might be a little daunting for beginners

DIGITAL VIDEO CAMERAS

Sony HDR-CX115E

★★★★★

Price: £263 **Reviewed:** Issue 233
Web: www.sony.co.uk
Full review: MF Issue 233 group test
Key specs: 1920x1080 resolution; 2.7-inch LCD; covers MPEG4-AVC and H.264 recording formats

⊕ Excellent all-round performance, and a compact, portable form factor
⊖ There are cheaper camcorders around

"The Sony provides you with all you'd want from a camcorder, with excellent build, features and quality."

Canon HV30 ★★★★½

Price: £835 **Reviewed:** Issue 201
Full review: www.techradar.com/468942
Key specs: HDV; DIGIC II processor; MiniDV/SD card
⊕ Superb stills and video; better than HDD
⊖ Cumbersome to use

Samsung VP-HMX 20C ★★★★☆

Price: £375 **Reviewed:** Issue 202
Full review: www.techradar.com/528224
Key specs: 2.7-inch LCD; movie capture at 2.1MP
⊕ Good screen; lightweight; offers full HD
⊖ Really need to shop around for price

ROUTERS/NETWORKING

AVM FRITZ!Box 7390

★★★★★

Price: £210 **Reviewed:** Issue 229
Web: www.fritzbox.eu
Full review: www.techradar.com/912929
Key specs: 802.11n, g, b and a; dual band 2.4GHz and 5GHz; power consumption 6-8 watts; integrated DECT base station

⊕ Packed with features, including dual band wireless 'n'; very fast
⊖ Expensive, especially if you don't want the telephony functions

"Fast and feature-rich, the FRITZ!Box 7390 could transform your home network. Great traffic-shaping features too."

Devolo dLAN 500 AVplus ★★★★½

Price: £120 **Reviewed:** Issue 241
Full review: www.techradar.com/1037426
Key specs: 500mbps homeplug networking
⊕ Easy to set up and use; versatile; fast speeds
⊖ A little bulky for some skirting boards

Netgear N600 Dual Band ★★★★½

Price: £130 **Reviewed:** Issue 246
Full review: www.techradar.com/960825
Key specs: WiFi b/g/n, two USB ports, dual band
⊕ Loads of features; USB ports very useful
⊖ Expensive; no external antennae

STORAGE

Samsung SSD 830

★★★★½

Price: £622 **Reviewed:** Issue 245
Web: www.samsung.com/uk
Full rev: www.techradar.com/1032247
Key specs: 512GB capacity (other sizes are available); 2.5-inch form factor size; SATA connection; bundled accessories

⊕ Fast boot times; very good performance; good bundled package
⊖ Its bundled software is Windows-only

"A speedy solid state drive that could give your MacBook Pro a very significant performance boost."

Seagate GoFlex Satellite ★★★★☆

Price: £170 **Reviewed:** Issue 240
Full review: www.techradar.com/1029702
Key specs: 500GB; Wi-Fi g/n connectivity
⊕ Stream media and docs to Mac and iOS over Wi-Fi
⊖ No internet bridging

Seagate Monumentus XT ★★★★☆

Price: £229 **Reviewed:** Issue 244
Full review: www.techradar.com/1055217
Key specs: Hybrid drive, 750GB
⊕ Brings near-SSD speeds with HDD capacities
⊖ Not quite as fast as solid-state storage

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BACK IT UP WITH iCLOUD
GET YOUR MEDIA SAFELY BACKED UP ONLINE WITH OUR STEP-BY-STEP GUIDES
Easily stream music or movies from iTunes
Import your iTunes library into Spotify
Mac
Future

The Ultimate Guide to iTunes & iCloud

Discover how to become an iTunes genius with this 164-page expert guide to Apple's entertainment and cloud services. Learn how to back up all your media, merge iTunes libraries, import tracks to Spotify and much more!

Available to buy online
www.myfavouritemagazines.co.uk/computer

BUYERS' GUIDE

HOME OFFICE

Writeroom 3.0

★★★★★

Price: £7 **Reviewed:** Issue 242
Web: http://hogbaysoftware.com
Full review: http://bit.ly/vKPlFX
System reqs: A Mac with an Intel processor is required; This latest version of Writeroom also demands OS X 10.7 Lion.

⊕ Great app for writers; default theme now very smart; save and share
⊖ No direct markdown support

"Elegant and simple, Writeroom 3.0 is a perfectly balanced and indispensable part of any Mac writer's toolkit."

MacJournal 6 ★★★★★

Price: £25 **Reviewed:** Issue 244
Full review: http://bit.ly/wWpt6Z
System reqs: OS X 10.6.8 or later
⊕ Simple interface; lots of options; smart journals
⊖ No significant weaknesses

FileMaker Pro 12 ★★★★★

Price: £219 **Reviewed:** Issue 248
Full review: http://bit.ly/JzMyOG
System reqs: OS X 10.6 or later
⊕ New UI tools; drag and drop; encryption
⊖ File format change

VISUAL TOOLS & LAYOUT

Photoshop Lightroom 4

★★★★½

Price: £104 **Reviewed:** Issue 247
Web: www.adobe.com/uk
Full review: www.techradar.com/1075537
System reqs: Mac OS X 10.6.8 or higher; multi-core Intel processor; 2GB of onboard memory; 1GB free hard disk space.

⊕ Dynamic range controls; new Maps module; integration with Photoshop
⊖ Can be slow; Folder and collection separation

"Lightroom 4's image editing has improved greatly, but its organisational approach can still be cumbersome."

BeLight Swift Publisher 3 ★★★★½

Price: £14 **Reviewed:** Issue 247
Full review: www.techradar.com/JvVXUx
System reqs: OS X 10.6.8+, Intel Mac
⊕ Powerful DTP tools; excellent value
⊖ Little between it and Pages '09

Apple iBooks Author ★★★★☆

Price: £Free **Reviewed:** Issue 245
Full review: www.techradar.com/1062792
System reqs: OS X 10.7.2 or later
⊕ Easy to use; previews to an iPad; free
⊖ Lion only; room for improvements

SYSTEM UTILITIES

Parallels Desktop 7

★★★★★

Price: £65 **Reviewed:** Issue 240
Web: www.parallels.com/uk
Full review: http://bit.ly/rHoJoP
System reqs: OS X 10.5.8 or later; Intel processor; 2GB RAM; sufficient hard drive space for additional OS

⊕ More flexible than Boot Camp; Coherence Mode is very useful
⊖ Convenience Store a little lacking in content

"If you need to run Windows or Linux on a Mac, Parallels Desktop 7 is a great way to set about it. Powerful and fast."

Roxio Toast 11 Titanium ★★★★½

Price: £85 **Reviewed:** Issue 233
Full review: www.techradar.com/936399
System reqs: OS X 10.5 or later, Intel Mac
⊕ Great new features, slick new interface
⊖ Fickle VIDEO_TS conversion

Default Folder X 4.4 ★★★★½

Price: £25 **Reviewed:** Issue 241
Full review: http://bit.ly/tmJy5o
System reqs: OS X 10.5 or later; PPC or Intel Mac
⊕ Time-saving features; customisable shortcuts
⊖ You might not use all its features

MULTIMEDIA SOFTWARE

Apple iLife '11

★★★★½

Price: £46 **Reviewed:** Issue 229
Web: www.apple.com/uk
Full review: www.techradar.com/909657
System reqs: Intel processor; 1GB RAM; Mac OS X 10.6.3 or later; 5GB HDD space; display, min. 1280x768-pixel resolution.

⊕ Great new features for iPhoto, iMovie and GarageBand
⊖ iDVD and iWeb not updated; the iLife suite is now Snow Leopard-only

"It's a pity iLife '11 is Intel-only, but as PowerPC Macs were discontinued in 2006, it's probably time to let go."

Apple Logic Studio ★★★★★

Price: £417 **Reviewed:** Issue 213
Full review: www.techradar.com/625541
System reqs: Intel Mac; 1GB RAM; Mac OS X 10.5.7
⊕ Powerful music studio; great tools; good value
⊖ Some minor bugs in the initial release

Anime Studio Debut 8 ★★★★½

Price: £27 **Reviewed:** Issue 239
Full review: http://bit.ly/tbw19J
System reqs: 256MB RAM; OS X 10.5 or later
⊕ Great animation toolset; new Character Wizard
⊖ Interface still odd-looking

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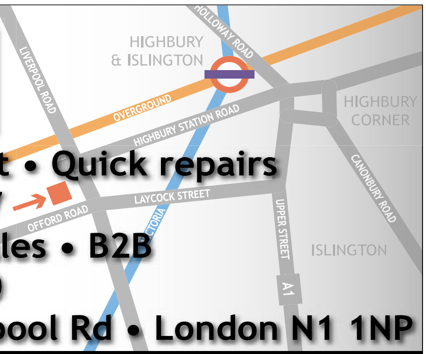

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The UK's biggest Mac magazine is about to get a whole lot better with a new-look print magazine and a new HD iPad version for the App Store!

If there's one defining characteristic of Apple it's that it's not afraid to change the design of even its best-selling products if it thinks there's a better way of doing things. Well, it's exactly the same here at MacFormat.

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As you can see from these example pages, the new design features a cleaner, more elegant layout.

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Apple announces the new high-definition iPad with Retina display, plus new versions of iMovie, iPhoto and GarageBand for iOS

On 7 March, Apple unveiled the third-generation iPad, but it's not called iPad 3. 'The new iPad' (as it's known) makes considerable advances on the iPad 2, with a 'resolutionary' 2048x1536 pixel screen, a powerful new quad-core

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SO, HOW DO YOU GET IT?

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Look out for the new-look *MacFormat* at your newsagents from 17 July.

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Search for 'MacFormat' on the App Store or **visit http://goo.gl/HTsPi** to download the app now!

Digital

Our new interactive HD app is iPad-only, but if you view it on an iPhone then you'll still see the original magazine pages. And you can still subscribe to *MacFormat* as a digital page turner via Zinio to enjoy on an iPad, iPhone and your Mac at **www.zinio.com**.

One more thing...

What malware?

Everyone knows Macs don't get viruses. Flashback says everyone's wrong

Everybody knows Macs don't suffer from malware, so how come the Flashback Trojan managed to infect half a million Macs? According to security firm CEO Eugene Kaspersky, "from a security point of view there is no big difference between Mac and Windows," and we're entering a new world of Mac malware. He might be right.

It's important to take security firms' claims with a pinch of salt, because of course their job is to jump out of cupboards to frighten children and collect their screams in cylinders, which they use to power Monstropolis. Or was that Sulley and Mike from *Monsters Inc*? It doesn't matter: either way, they have a vested interest in making people scared.

There is a wonderful conspiracy theory that suggests all of the malware on the internet is actually generated by anti-malware companies in the world's biggest job creation scheme. I don't believe a word of it, but I do think that malware firms can exaggerate many threats: to date, the number of security firm press releases I've read about iPhone malware is more than the number of iPhone users who've ever been affected by malware.

That doesn't mean they're wrong about Macs.

Malware writers aren't stupid, but they are efficient: they'll only bother attacking a platform if it's worth the effort. When Macs were a minority choice, they weren't. Now everybody you know has bought one, they are. The more Macs Apple sells, the more tempting a target those Macs become. If anything, Apple users might be more vulnerable than Windows ones. Windows users have had the security message pummelled into them for years, but I know lots of recent Mac converts who bought Apple because "Macs don't get viruses". That's dangerous, because that kind of thinking makes people go, "Ooh, an *iTunes* update from a website I've never heard of! I'll install it right now!"

> "Malware writers will only bother attacking a platform if it's worth the effort"

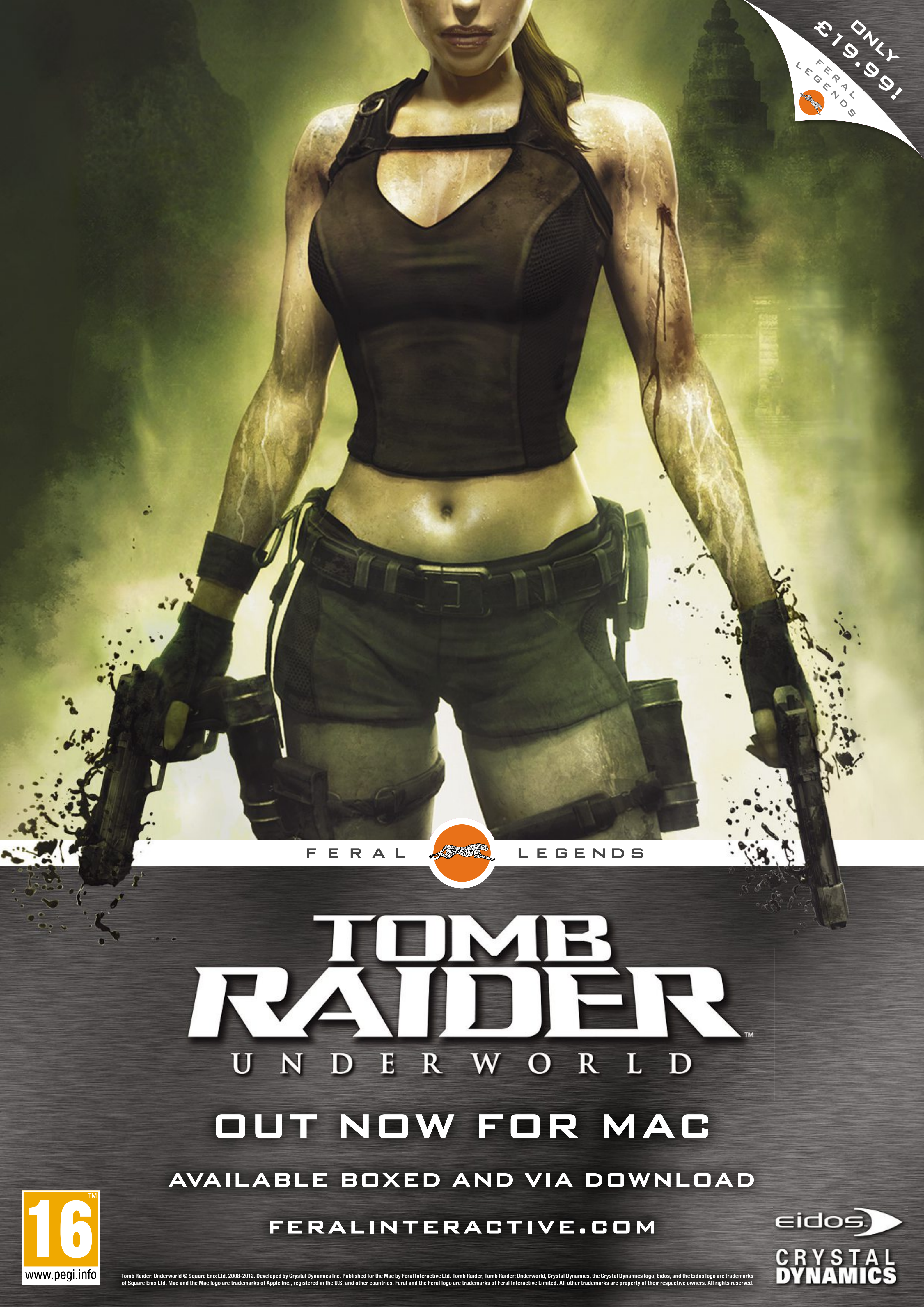
Illustration: Elly Walton

There's a second factor here. Because Mac malware is a relatively rare thing, Apple hasn't had to be as fast at fixing things as Microsoft has had to. That means its response to issues can be painfully slow, and Flashback is the result of that: it infected Macs but not PCs running Windows or Linux, because the Java update it exploited had already been patched on those platforms. Apple took an extra two months to get round to it.

Apple has since given Oracle the responsibility for Java on OS X, but you can be sure of two things: malware writers will find something else on OS X to attack, and when they do, Apple will probably take too long to react. That has to change. Flashback's success has made malware writers take notice. Mountain Lion's Gatekeeper will make things more harder for them, but hard doesn't mean impossible, and not every Mac owner will upgrade.

I don't think we should panic, but I don't think we should be cocky either. The security firms may have cried wolf for years, but this time we definitely heard a howl. ●

Freelance writer Gary Marshall's many Macs have never had viruses, but then again neither have his many PCs. The secret? "Trust no-one," he says.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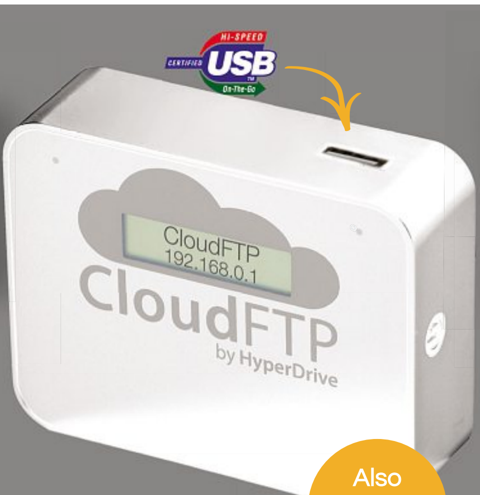
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